DOCUMENT RESUME

ED 114 969

EA 007 710

AUTHOR TITLE Hojak, Joseph L.
Appreciating Human Accomplishments. A Guide to the Analysis and Interpretation of EQA Scores and Pelated Intervention Techniques. Guide to Strategies for Improvement, Goal 9. PDE Working Papers.
Pennsylvania State Dept. of Education, Harrisburg.
Bureau of Planning and Evaluation.

INSTITUTION

PUB DATE 75 .
NOTE 84p.; Related document is EA 007 709

EDRS PRICE DESCRIPTORS

MF-\$0.76 HC-\$4.43 Plus Postage

*Aesthetic Education; Art Education; Correlation;
Cultural Enrichment; Curriculum Development;

*Educational Assessment; Elementary Secondary
Education; Fine Arts; Humanities; Humanities
Instruction; Literature; Music Education; *Natural
Sciences; Science Education; *Social Sciences; State
Program; *Statistical Analysis; Student Attitudes;
Student Interests; Student Participation; Values

*Pennsylvania

IDENTIFIERS

ABSTRACT

Goal IX of the Educational Quality Assessment (EQA) deals with appreciating human accomplishments. The assessment instruments concentrate on attitudes that measure the degree of value students place on areas of human accomplishment and the willingness; of students to explore environments where firsthand experiences are available. The purpose of this paper is 8(1) to provide school districts concerned about the improvement of student attitudes as they relate to Goal IX with clues to strategies and programs that may effect change, (2) to help school districts utilize the EQA School Report as a diagnostic tool for the design and implementation of curriculum change; and (3) to provide suggested strategies and sources of literature specifically designed to focus on Goal IX. Two distinct approaches are presented. The indirect approach analyzes the condition variables that have significant correlation coefficients to Goal IX scores. The direct approach analyzes the student response patterns to the questionnaire items to determine areas or subscales that can serve as a point of focus for investigating educational research and implementing intervention strategies. The document also, discusses intervention techniques and ongoing programs. An extensive bibliography and appendixes that provide a sample school report and describe available information packets are included. (Author/IRT)

* Documents acquired by ERIC include many informal unpublished

* materials not available from other sources. ERIC makes every effort

* to obtain the best copy available. Nevertheless, items of marginal

* reproducibility are often encountered and this affects the quality

* of the microfiche and hardcopy reproductions ERIC makes available

* via the ERIC Document Reproduction Service (EDRS). EDRS is not

* responsible for the quality of the original document. Reproductions

* supplied by EDRS are the best that can be made from the original.

EDUCATION

Guide to Strategies for Improvement

ASSESSMENT.

QUALITY

VI VII VIII



US DEPARTMENT OF HEALTH. #
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION
THIS DOCUMENT HAS BEE'N REPRO
DUCED EXACTLY AS RECEIVED FROM
THE PERSON OF ORLANIZATION ORIGIN
ATING IT POINTS OF VIEW OR OPINIONS
STAYED DE NOT NECESSARILY REPRE
SENT OFFICIAL NATIONAL INSTITUTE OF
EDUCATION POSITION OR POLICY



Appreciating. Human ccomplishments A Guide to the Analysis and Interpretation of EQA Scores and Related Intervention Techniques

GOAL IX Appreciating Human Accomplishments

by Joseph L. Hojak Division of Educational Quality Assessment Bureau of Planning and Evaluation Pennsylvania Department of Education 1975

Commonwealth of Pennsylvania Milton J. Shapp, Governor

Department of Education
John C. Pittenger, Secretary

Office of Basic Education
 Donald M. Carroll Jr., Commissioner
 Harry K. Gerlach, Deputy Commissioner

Bureau of Planning and Evaluation John L. Kennedy, Director

Pennsylvania Department of Education Box 911 Harrisburg, Pa. 17126

GOAL IX

APPRECIATING HUMAN ACCOMPLISHMENTS

"Quality education should help every child to understand and appreciate as much as possible of human achievement in the natural sciences, the humanities and the atts."

TABLE OF CONTENTS

•		,	*/	Page
CHAPTER I		•••	• • • • •	. 1
Goal Rationale	• • • •		• • • • •	. 1
Measurement		·		. 2
Purpose	• • • •		• • • • • •	2
INTRODUCTION				. 3
CHAPTER II		•. •. •		. 4
Part AINDIRECT APPROACH		• • •		. 4
Part BSIGNIFICANT CORRELATION COEFF CONDITION VARIABLES AND GOAL	ICIENTS I	BETWEEN S FOR		,
SCHOOLS BY SES	• • • •	• • • .	• • • •	. 6
Part CINTERPRETATION ANALYSIS	• • • •	• / • •	• • • • •	. 8
Part D-DISCUSSION OF CONDITION VARIA RELATIONSHIP TO GOAL IX SCORE	BLES AND	THEIR	· · · · · · · · · · · · · · · · · · ·	. 10
Parental Attitude	•			10
Public Relations Strategy: Parenta	l Attitud	le. j		. 11
Home Climate			• • • • •	. 14
Mores-Girls and Mores-Boys (Grade 8)			. 15
Values	• • • •			. 16
Recognition Strategy: Mores-Girls,				
Summary	• • • • •		• • • •	. 18
Summary	· · · ·	٠.١.	• • • •	. 19
Part ADIRECT APPROACH	/ • • • • •		• • • • •	. 19
Identification of Needs	• •. • • •	· .• • /•	· · · · · ·	. 19
General Scale Description				

CONT D

ERIC Fruit fext Provided by ERIC

¥	• .	Lage	J
Organization for Analysis	,	20	
. Data Analysis and Interpretation	a	23	
Part BINTERVENTION TECHNIQUES.		27.	
Proposition #1		27	
Proposition #2		30	
Music		30	
Art		33	
Drama and Dance		34	
RESOURCE INFORMATION AND ONGO: (Aesthetic Education)	ING PROGRAMS	35	
Literature		36	
Science	• • • • • • • • • • • • • • • • • • • •	37	
Government		41	
Religion	• • • • • • • • • • • • •	43	
Ecology	• • • • • • • • • • • • • • • • • • • •	43	
Athletics	• • • • • • • • • • • • •	. 44.	
IBLIOGRAPHY		. 45	
PPENDIX ASchool Report: A Status	Profile	50	
PPENDIX BInformation Packets		75	

CHAPTER I

Goal Statement

"Quality education should help every child to understand and appreciate as much as possible of human achievement in the natural sciences, the social sciences, the humanities and the arts."

Goal Rationale

The tendency to exalt one's own accomplishments and ignore or underplay the accomplishments of others is quite natural at every level of human society. The dangers that result from this individualistic view have made schools recognize the need to reduce or eliminate this type of behavior.

Students should be encouraged to gain knowledge about human accomplishments. Possessing this knowledge, they will then be ready to receive, rather than avoid the stimuli that the sciences and arts provide. At the next level, they will be ready to more clearly and conciously perceive these stimuli and will begin to discriminate among art forms. In the final stage of development, they will choose to see a play, to read of a famous scientist or to contemplate the design of a building.

Insofar as possible, the school should attempt to engage students in the arts, sciences, government, ecology and literature, in order to develop interests and provide a greater degree of sophistication in their appreciation of the accomplishments of others.

8

Measurement

The assessment instruments concentrate on attitudes which measure the degree of <u>value</u> students place on areas of human accomplishments and the willingness of students to explore environments where first-hand experiences are available.

The questionnaires for grades 8 and 11 are identical and contain 48 items, 24 in each subscale. The grade 5 questionnaire has 38 items, 19 in each subscale. All the instruments are designed to measure both how much students <u>value</u> human achievements and the degree to which they are willing to <u>receive</u> stimuli in the several areas of literature, art, athletics, government, science, ecology, music, drama and dance.

The Purpose

The purpose of this paper is to: (1) provide the school districts concerned about the improvement of student attitudes as they relate to Goal IX with clues to strategies and programs that may affect change; (2) help them utilize the EQA School Report as a diagnostic tool for the design and implementation of curriculum change and; (3) provide suggested strategies and sources of literature specifically designed to focus on Goal ÎX.

_

 \mathcal{G}

INTRODUCTION

may ponder the question, "How do we improve attitudes on such a wide variety of concepts?" Two distinct approaches will be investigated in this report: (1) an indirect approach which analyzes the condition variables that have significant correlation coefficients to Goal IX scores (CHAPTER II); and (2) a direct approach which analyzes the student response patterns to the questionnaire items—to determine areas or subscales that can serve as a point of focus for investigating educational research and implementing intervention strategies (CHAPTER III).

CHAPTER II

Part A

INDIRECT APPROACH

In dealing with the indirect approach, the primary focus is on Goal IX. The condition variables may, however, relate to a number of the goals. For example, the condition variable Parental Attitude Toward School (PARATT) reveals a significant correlation with school mean scores on all goals in grade 5, and all but Goal VII in grades 8 and 11. This suggests that schools have a tendency to score high on these goals if students feel their parents have a positive attitude toward the school. One might hypothesize then that any program which creates a more positive parental attitude toward school may also improve school scores in all the goals except Goal VII in grades 8 and 11.

At this stage in the development of intervention strategies, all the condition variables with significant correlations will be presented. Some of these variables appear to be unmodifiable, although we are not yet in a position to make such distinction. There has been no attempt here to delineate those variables that are modifiable and those that are not. Insufficient evidence makes such a division invalid at this time. Further study may eventually make this tank possible.

Interpretation of statistics in the status profile should be made with care. Cause and effect cannot be automatically attached to the correlation coefficients. For example, poor parental attitude toward school does not necessarily cause low scores on Goal IX, although one can hypothesize that this may be the case.

Correlation coefficients between condition variables and goal scores indicate a relationship. The larger the correlation, the stronger the relationship. While this relationship does not explain cause and effect, it would be a disservice to the school to refrain from considering hypothesis that may help students improve goal scores. The remainder of this chapter is devoted to this premise.

ERIC

PART B

SIGNIFICANT CORRELATION COEFFICIENTS BETWEEN CONDITION VARIABLES AND GOAL IX SCORES FOR GRADES 5-8-11

The condition variables with significant correlation coefficients will be listed by grade. It is imparative to reveal the relationships between these variables and Goal IX by grade in order to discuss intervention techniques in Part D that may affect this relationship in a positive manner, thus ultimately affecting schools Goal IX scores.

Grade 5

Home Clin		•49
Parental	Attitude Toward School	48
Per Cent	White	.34
Father's	Occupation	.29
Mother's	Education	.26

Grade 8

Parental Attitude	Toward_School	.43
Home Climate		.41
Mores-Girls		.30
Values .	•	.29
Mores-Boys	•	.25

Grade 11

Parental Att	itude	Toward	School	.42
Home Climate		•	-	. 32
Mother's Edu	cation	1 , i		.32
Values				.29

It is obvious that Home Climate and Parental Attitude toward school have a significant relationship, across all grade levels, to schools' scores on Goal IX. These variables will be discussed along with suggestions for affecting them in Part D. In addition, the variables Values, Mores-Boys-Girls will also be given consideration since, as measured, they tend to be rooted in the school. (It should also be noted that Values, Mores-Boys and Mores-Girls were not measured in grade 5).

Per Cent White, Father's Occupation and Mother's Education will not be discussed. It appears unrealistic to attempt to alter or affect these variables at this time.

PART C

INTERPRETATION ANALYSIS

Information in this section will be used to analyze the condition variables in the Status Profile of the school. To make hypotheses and adopt a plan of action, it is important to assess all the condition variables having significant correlation coefficients by grade level. For example, if Parental Attitude (a variable that has a significant correlation at all grade levels) has a low percentile ranking on the schools' Status Profile, the suggestions to be discussed in Part D should be considered.

The following is a sample analysis of the school Status Profile found in Appendix A of this report.

Illustration

Step 1--Note the ACTUAL SCHOOL %ILE for Goal IX (See the chart on page 52 of the Appendix). Note also that the Actual School Score (54.35) is at the 18th percentile.

Step 2--Identify the condition variables from this chapter (Part B) that have the highest correlation coefficients to Goal IX scores for Grade 8 schools. (They are Home Climate and Parental Attitude Toward School.)

Step 3—Obtain the mean school score for these condition variables from the student variables section on page 56 of the example report. Here, Home Climate is at the 9th percentile and Parental Attitude Toward School is at the 10th.



Step 4--If these scores are low, schools should consider implementing the intervention techniques described in the next part (D).

These steps should now be applied to the Status Profile of the local school. If the mean school scores are low on any or all of the condition variables that have a relationship to Goal IX, the suggestions in Part D should be considered.

DISCUSSION OF CONDITION VARIABLES AND THEIR RELATIONSHIP TO GOAL IX SCORES WITH SUGGESTED INTERVENTION TECHNIQUES

Parental Attitude

This variable measures what students believe their parents' attitudes are toward school. Data are based on student responses to these statements:

- 1. My parents enjoy hearing about school.
- 2. My parents feel the school is doing a good job.
- 3. My parents support what the school does.

Responses to these statements can be one of the following: almost always, usually, sometimes or never. Answers are weighted and a mean score is calculated for the school.

Students who believe their parents have a positive attitude toward school tend to score high on the Goal IX instrument. Thus, one might hypothesize that if parents support the school and are positive in their attitude toward school, the student: (1) may value the school experience, (2) be willing to receive stimuli in the arts and sciences and (3) seek experiences which provide first-hand information on what people in these areas are doing.

Of the correlation coefficients between goals, Goal IV (Interest in School) has a high correlation with Goal IX (Appreciating Human Accomplishments). This indicates that schools which score high in Goal IV also tend to score high in Goal IX.

This, in turn; suggests that children who live in a less positive environment may transfer their negative attitudes to all phases of their daily living. It is very difficult for the school experience to be important to a child if the parents feel the school is not doing a good job or fail to support its efforts. The student will tend to reject the stimular provided by the school and thus lack basic knowledge in these areas. It is very difficult to appreciate something if you know very little about it.

This can also be pointed out if one reviews the Goal Rationale. In this goal student achievement is based on a cognitive ladder: knowledge is the first level, receiving stimuli is the second, perceiving and discriminating is the third, and responding to phenomenon is the fourth. The school must bear some responsibility for the first level. If, however, the parental attitude toward school and the home climate of the student are less positive and students reject stimuli, the school's job becomes more difficult.

Public Relations Strategy: Parental Attitude

The school administrator's biggest problem with parental attitude toward school is the passivity and indifference of many parents. Educators have long been aware that parents whose involvement would most help their children are those least likely to be spontaneously active in school affairs. Many parents believe school is a place where they send their children for several hours each day, but do not believe it is a place where they have an immediate personal concern. They do not identify with schools and frequently have less than pleasant memories of

their own school days. Therefore, it is imperative that the school solicit support through a planned public relations program rather than haphazardly assuming it is the parents' responsibility to find out about the school.

The importance of parental involvement is a proven fact.

The results of a federal government study show that, while students made cognitive gains under Elementary and Secondary Education Act projects, these gains were often nullified at home by alienated or indifferent parents. It is obvious that parents have always affected their children's learning processes. Whether the parental influence is positive or negative, rests to a large extent, on the attitude of the schools. Thus, communications between home and school are needed and cannot be left to chance if administrators are to know parental attitudes. Often, a newsletter is the sole school public relations medium with the general public. If it's the only tool, it can be easily dismissed by the readers as propaganda.

The school's public relations program must be well-rounded to effectively gain parental attention and shatter the bonds of indifference. Several commercial programs are available to give administrators the tools they need to conduct a complete, step-by-step program (19). (Actual materials used in schools are included in many, along with sample problems and solutions.) Some suggestions are:

1. Public opinion polls—What might parents want to know?

Are they satisfied with curriculum? What might parents suggest as alternatives? Do they want to get involved in the school?

Polling questionnaires are included in many public relations packages.



- 2. News gathering teams—What's newsworthy about the school?

 A team of news gatherers made up of parents, students, teachers and administrators might be organized to cover all segments of the school and the community.
- 3. News release—Establish a two-way hot line with local newspapers to alert the public to new programs, events and meetings.

 An open, honest rapport with news reporters is especially important.
- 4. Home study exercises—Prepared by the school district to encourage parental involvement in the school work of their children, these home study exercises are in the form of planned activities that can be conducted by parents and children at home.
- 5. Parent aides -- A group of parents is trained to go into student homes and assist parents to help their children with homework and other school-related programs.
- 6. Parent advisory councils—These can be organized to help administrators make decisions affecting schools and the community.
- 7. Community talent bank--A list of local citizens with particular talents can be called upon to help in career guidance and as lecturers or demonstrators.
- 8. Public relations training -- Planned courses in communications, including "In-basket" techniques (role playing), can help the administrator make effective public relations decisions.

Public relations handbooks are other sources school administrators should investigate (5). Classified as "how-to" books, they are comprised of numerous 'workable ideas for improving a school official's communication with many publics.

The practicality of these suggestions must be determined by the school administrator. However, in view of the relationship between parental attitude and goal scores, a school administrator cannot afford to leave public relations to chance. Additional sources on public relations programs may be found in the bibliography.

Home Climate

This is a student variable in which the students report their opinion about home climate. For example, the following statements are included in the questionnaire:

- 1. I don't receive much attention at home.
- 2: I feel understood by my parents.
- 3. My parents consider my feelings.

Schools in which students attain higher scores on the variable home climate tend to score high in Goal IX. Perhaps parents, who value their children as individuals, provide them recognition and maintain a positive attitude, may also influence their children's attitudes toward the accomplishments of others.

The antithesis might create a negative attitude toward the accomplishments of others: "I can't do anything right, neither can anyone else."

The findings of Coleman, Jencks and others about the educational importance of home influence suggest that schools need to remind parents of their critical role in their children's success in school. Of course the reminders must be presented carefully and in a positive way to avoid buck-passing, invalid accusations, and strained relations among school, parents and children. A positive approach might be for the school to



share student accomplishments with parents and to explain that accomplishments are possible because of the positive home climate. Another approach is to emphasize the impact of this variable when schools report the EQA results to the public.

The correlation coefficient matrix between condition variables and goals scores, found in the Manuals for Interpreting School Reports, further emphasizes the importance of home climate. This variable has a significant correlation with all but one of the goals--creativity.

Mores-Girls and Mores-Boys (Grade 8)

This student variable measures the student's perception of the best way for a girl or boy to become important and be admired by other students. The variable is weighted to award a higher score to responses related to intellectual factors rather than those involving social factors in determining a girl's or boy's popularity. For example, the response "Being bright and well informed" receives a weighting of seven, whereas "Coming from the right family" reserves a weighted score of one. Schools with students scoring high in the variable Mores-Girls and Mores-Boye' tend to score higher in Goal IX.

This relationship suggests that students who feel that intellectual factors are the best way to get shead in school are more likely to appreciate the accomplishments of others, to value the arts and sciences, and to seek experiences which provide first-hand information on what people in these areas are doing.



Values (Grades 8 and 11 only)

This student variable is related to the variable Mores-Girls and Mores-Boys in that essentially the same question is used. In the Mores question, the student is asked to respond to his or her perception of how a boy or girl becomes important and looked up to by his or her peers. In the Values variable, the student is asked to report what quality is most important to him or her as an individual, regardless of others' opinions. Students have the same choice of answers as in the Mores-Girls and Mores-Boys question. Again, a higher weight is given to intellectual pursuits than to social factors.

The same hypothesis suggested by Mores-Girls and Mores-Boys might also be applied to the Values variable. Students whose personal values lean toward intellectual factors tend to place a greater emphasis on the accomplishments of others.

Recognition Strategy: Mores-Boys, Mores-Girls, and Values

If intellectual pursuits are to be emphasized, appropriate recognition by the student is necessary to reenforce his or her striving toward this goal.

Interviews with student interns working in the Department of Education indicated that student attitudes toward intellectual pursuits are dampened considerably by the lack of recognition given to academic students. An honor roll is generally published at the end of each grade period, but this recognition is ignored—for the most part—by students. Certainly there must be other more meaningful methods of rewarding academically successful students in order to encourage others.

The following are possibilities:

- 1. Mastery Examinations: Students capable of passing a mastery examination in a subject could be awarded a unit of credit without having to attend class. This would not only encourage students' intellectual pursuits but would give them free time to pursue self-directed interests.
- 2. Exemption from Final Examinations: Students with honor status throughout the year could be exempted from final examinations. This incentive may encourage other students to strive for the same goal.
- 3. School Privileges: Students with honor status could be given additional school privileges including a permanent library pass, appointment to curriculum advisory councils, programmed courses for credit, study hall exemption with a conference room to do self-directed work, and released time from school for field trips and career development projects.
- 4. Student Tutoring: Honor students could be enlisted as potential peer tutors and be given the opportunity to conduct seminars and lectures, either on a voluntary or a paid basis. (Additional sources on peer tutoring can be found in Appendix B.)
- 5. Student of the Month: Names of students pursuing and accomplishing intellectual activities could be publicized in the school newspaper-especially if their projects are self-directed.

These five suggestions for recognition of students' intellectual pursuits are not intended to be a comprehensive list. It is not presumed that they will, indeed, improve student values, but they should be considered when meaningful student recognition is lacking.

Summery

The impact of attempting to modify school results on the condition variables which have significant correlation coefficients with Goals IX scores should be clearly realized. The relationship between a condition variable and goal scores is usually—but not limited to—a single goal. For example, if a school, through its public relations program, helps parents gain a more positive attitude toward school, there is a strong possibility that student scores on all goals will be increased. Consider the efficiency of this approach!

Suggestions in this section, based on EQA data and appropriate educational literature, should help school personnel focus on variables often taken for granted. Positive planned steps affecting these variables should benefit both the school and community.

Charter III .

Part A

DIRECT APPROACH

This approach involves the investigation of the item response data available from the Division of Educational Quality Assessment.

This data, providing a school district with the per cent of student responses to each and every item on the quality assessment instruments, can be especially useful since statewide information of the same nature is available for comparison. The approach is designed to help administrators analyze specifically what is tested in an attempt to pinpoint, if possible, any school discrepancies.

Identifications of Needs

The item data and the school report can be used to identify areas of the Goal IX instruments in which school deficiencies apparently exist. These needs can be identified in two ways:

- 1. Positive or negative student attitudes toward specific subscales.
- 2. Positive or negative student attitudes toward specific subject areas.

A complete understanding of the instruments and a description of the subscales are needed to complete this analysis.

General Scale Description

The questionnaires for Goal IX contains 48 items for grades 8 and 11 and 38 for grade 5. They measure how much value students.

place on human achievements in the arts and sciences and to what degree they are willing to receive stimuli that endeavors in these areas provide. Areas are: literature, art, athletics, government, science, ecology, music and drama. The scale is organized into two subscales, each having half of the items.

Subscale 1: <u>Valuing</u> measures the amount of importance the student attaches to achievements in the arts and sciences and how much the student values the role played by people in these areas. (Sample item: "Most scientists don't care how their work affects people.")

Subscale 2: Receiving measures willingness to learn more about achievements in the arts and sciences and to seek out experiences which provide first-hand information on what people in these areas are doing. (Sample item: "It would be fun to watch people paint at an art studio.")

Organization for Analysis

The following materials are needed to make a complete analysis:

- Criterion information on Goal IX from the schools'
 Status Profile. (Example can be found on page 70 of the sample report in Appendix A.)
- 2. Schools' item response data and statewide responses. (These are available for Goal IX from the Division of Educational Quality Assessment, Harrisburg, Pa.)
- 3. Copy of the Goal IX instruments.
- 4. Identification of subscale and subject matter questions. (Categorization Chart)

The following charts represent the categorization of the test questions by subscale and subject. This will facilitate the use of the item response data and the test (2 and 3 above) in an analysis.

GRADE 5 - CATEGORIZATION OF GOAL IX TEST QUESTIONS - BY SUBSCALE AND SUBJECT

SUBJECT	SUBSCALE		
5550151	Waluing	Recieving	
	Questions	Questions	
ARTS: Art Music Drama Literature Dance	16 2,28 8,14 4 10,25	⁹ 21,32, 17 3,36 6,13 35	
SCIENCE	15,18,29	11,19,33	
GOV'T & RELIGION	7,23,34	9,22,30	
ECOLOGY ATHLETICS	5,12,31 24,38	1,27,37 2 0,26	
Total Subscale Items	19 * *	19	



GRADES 8 AND T1 CATEGORIZATION OF GOAL IX TEST QUESTIONS BY SUBSCALE AND SUBJECT

SUBJECT	SUBSCALE		
, ,	Valuing	Receiving	
3	Questions	Questions	
ARTS: Art Music Drama Literature Dance	22 4,5,35 2,13,20 9,39 16,31,45	18,27,40 7,21,23 8,44 10,11,19 43	
SCIENCE	14,24,36	17,25,41	
GOVERNMENT	29,34,42	28,33,38	
ECOLOGY	3,12,15	6,47,48	
ATHLETICS	1,30,46	26,32,37	
Total Subscale Items	24	24	

While criterion information in the Schools' Status Profile

Report is valuable, additional materials may be obtained by contacting
the Division of Educational Quality Assessment and making an appointment
with a trained staff member in Harrisburg who will help interpret the
item data.

Data Analysis and Interpretation

When all the materials have been assembled, they can be analyzed and interpreted in either of the two ways described on the previous pages. The following examples represent both types of analyses:

EXAMPLE #1: Positive or negative attitudes toward Valuing and Receiving—This represents an interpretation of the Criterion Reference Information found in the School Report. (Here, the school report in the Appendix will be used:)

Step 1. Carefully read the information on page 70 in Appendix A, noticing that the line of L's indicates that about 56 per cent of the students in this school show a positive attitude in Valuing. Of the 280 students completing the assessment, 157 display a positive attitude by answering—in a positive manner—one more than half the items in this subscale (13 out of 24 items). Conversely, 44 per cent.did not show a positive attitude. This represents 123 students who apparently do not attach importance to achievements in the areas assessed.

Step 2. Analyze the information for the Receiving subscale in the same manner. Notice that the need appears to be more urgent in this area. Only 27 per cent of the students showed a positive attitude or willingness to learn more about achievements in the arts and sciences.

Conclusion: A large number of students in this school could benefit from a program in aesthetic education.



Now apply this procedure to the <u>Status Profile</u> of the school district. If deficiencies appear, investigate further and earmark strategies for improvement.

EXAMPLE #2: Positive or negative attitudes toward specific subject areas—This analysis must be made in Harrisburg since the school item data and the statewide response patterns to these items are available only in the Division of Educational Quality Assessment. Copies of the instruments are available for such analysis.

The analyst will have four sources of information: the instrument, the schools' item data, statewide item data and the Categorization of Goal IX Test Questions Charts on pages 21 and 22 of this chapter. The procedure follows this sequence:

- Step 1: Read question number one from the instrument:
 "Athletics are a waste of time."
- Step 2: In the school item data, obtain the per cent of student responses to this question under each of the possible enswers.

AGREE UNCERTAIN DISAGREE 6% 8% 86%

Since this is a negatively stated question, the preferred answer is <u>Disagree</u>.

Step 3: Obtain the statewide student responses to this same question:

AGREE UNCERTAIN DISAGREE
4% 7% 89%

- Step 4: As a rule of thumb, if a five per cent discrepancy below the state responses on the preferred answer occurs, the question should be circled on the Categorization of Goal IX Test Question Chart. Since only a three per cent descrepancy occurs, this question would not be circled.
- Step 5: Complete the previous four steps for each question on the Goal IX instrument, circling those question numbers displaying five per cent or more discrepancy.

After completing these steps, the deficiencies existing by subscale and subject will emerge. The school can then emphasize those areas of aesthetic education that need it. Lack of a clearcut pattern may indicate a general need for valuing and receiving in all areas.

The Categorization Chart for the example school in Appendix A after completion of the five steps previously discussed appears as follows:

GRADES 8 AND 11
CATEGORIZATION OF GOAL IX TEST QUESTIONS
BY SUBSCALE AND SUBJECT

SUBJECT	SUBSCALE		
	Valuing	Receiving	
	Questions	Questions	
ARTS:	22		
, Art	Q ,5,35	18 (27) 40	
Music Drama	2,13,20 9.69	7,21,23	
Literature	16,00,00		
Dance	, ∪, ∪, ()	° 43	
SCIENCE	14,24,36	17,25,41	
GOVERNMENT	, 29 (3) (2)	28,33,38	
ECOLOGY	3,12,15	6,47,48	
ATHLETICS °	1,30,46	(b), 32,(37) .	
Total Subscale Items	24	24	



Conclusion

There is an equal number of discrepancies in the arts for both valuing and receiving. Further analysis shows an apparent "need" in literature and drama. It is also noted that the discrepancy in the area of athletics relates to literature: "It would be interesting to read about the lives of famous athletes." From available data, it would be valid to assume that the emphasis in aesthetic education should be placed on drama and literature. Therefore, the sample strategies in Part B of this chapter that deal with these areas of drama and literature should be studies by the school district.

26

Part B

INTERVENTION TECHNIQUES

This part deals with a discussion of intervention techniques for Goal IX and revolves around two propositions based on a review of literature and ongoing programs. The school district must decide, on the basis of an analysis of data (Chapter III, Part A), which of the intervention techniques will best suit the needs of the students. Where applicable, the techniques will focus on subject matter areas such as art, music, drama, etc.

It should be clearly understood that these techniques do not represent a complete review of, or the total answers to, all the programs being attempted. They are intended to provoke thought and encourage further investigation.

PROPOSITION #1

Attitudes are relatively stable and enduring systems, even in children, but can be influenced by teachers, peers and parents.

Research indicates that attitudes can be reshaped and modified.

Rump and Southgate (42*) found that attitudes toward the arts could be definitely influenced, formed and changed either positively or negatively by experts or teachers.

Teachers tend to have more impact on students than they actually realize. Often, subtle conversations on the personal likes and dislikes that a teacher possesses are internalized by students, as the following

^{*} Refers to numbered sources in bibliography

case illustrates. Male students were exposed to two athletic coaches during the school year. During the fall, the boys were seen as well behaved and gentlemanly in their contacts with adults and students from other schools. In the spring, some of these same students were exposed to a coach who had bigoted beliefs and used foul language. A noticeable change occured in the students' attitudes—they began to openly use the foul language and bigoted terms commonly used by the coach. Parents and other adults associating with the students began to complain to the school district. This case was eventually dealt with, but more subtle influences often tend to be overlooked because teachers are unaware of or fail to recognize them.

Many times, students—particularly elementary children—misinterpret teachers' statements or internalize teacher beliefs.

Because of this, teachers should be aware of incidental influence and practice caution in making statements that may negatively influence students. This is particularly true of teachers who use the dominative pattern of teaching described by Flanders (26).

Toward the more positive side, Cook, Leeds and Collis (17) wrote..."It is assumed that the attitudes of pupils toward their teachers and school work are a reflection of their teachers' attitudes toward them and toward teaching procedures." Therefore, it is important for a teacher to make a special effort to display a positive attitude toward the student and the subject matter. While personality conflicts do occur, it is to the teacher's advantage to minimize them. Bush (12)

indicates that the pupil/teacher rapport is a powerful factor in bringing about an effective learning relationship between the two.

Eames (23) said "Pupils appear to like a subject when they know that the teacher likes it, too."

In summary, teachers should:

- 1. Be aware of both incidental and planned influence on student attitudes.
- 2. Like their students and show it in a positive way.

 (Sources on how to go about this in-service)

 training can be found in Appendix B under the title,

 "How to Increase a Teachers' Interest and Compassion
 Toward a Student.")
- 3. Demonstrate an obvious satisfaction and interest in the subjects they teach.
- 4. Display mastery of the subject matter and teaching procedures. (Appendix B--"Teacher-Student Interaction.")

Certainly all positive components are not found in every teacher at all times. But, if there is to be an ideal foundation for learning, then teachers should be aware of the nature of student attitudes and their part in shaping or affecting them.

It is also important to define attitudes as they relate to specific subjects. Although both affective and cognitive elements contribute to attitude, they are often so interwoven as to defy discrimination and strict delineation. However, Albert Yee (50) defines attitudes as an enduring system of three components centering on a single object: (1) beliefs about the object (the cognitive component); (2) the effect connecting with the object (the feeling component); and (3) the disposition to take action with respect to the object (the action tendency component). This largely follows the Goal IX Rationale



and, in fact, will be borne out by research in Proposition #2. The research says, in effect, that for students to form positive attitudes toward forms of aesthetic education, some cognitive information is necessary and should be followed by experiences to reenforce this knowledge.

PROPOSITION #2

Systematic and sustained engagements in the arts and humanities will result in appreciation and utilization of aesthetic principles.

In this section the writer will present research that supports the proposition and do so, where possible, by subject matter. It should be noted that even though a concept is specifically aimed at a particular subject, it may have ramifications for all aesthetic education. Therefore, it is suggested that the reader study all subject areas in order to understand suggested principles and intervention techniques. For subjects involved in "Aesthetic Education," (Art, Music, Drama, Dance) ongoing programs and resources are compiled under a separate heading following the discussion on Drama and Dance.

For Literature, Science, Government, Religion, Ecology, Intervention Techniques and Strategies, where available, are incorporated in the discussion.

Music

Children's attitudes toward specific music and musical composers were studied by Pepinsky (40), using both a pre- and post-test. The study included also a correlational comparison with other factors, such as musical aptitude, musical background and experience.



All children involved in the study increased their liking for music in general; their attitudes toward the music studied seemed to be more closely related to <u>musical experiences</u> than to any other factors.

Usually the secondary school is limited in the types of musical experiences it can provide. However, if the district is concerned about student attitudes toward music, it must systematically provide sustained exposure to musical experiences. General music classes too often try to cover a wide spectrum of musical knowledge without concern for the impact upon student attitudes. Research indicates that repeated listenings are necessary in order to increase the pleasure of hearing a musical composition; this is true for both classical and modern forms of music. The lack of time is often a fatal blow to students' appreciation of classical music. The research points out, it is unlikely that a student will appreciate Bach's Three Part Inventions after hearing only one small excerpt. In popular music we find this theory validated. Radio station disc jockeys are capable of turning songs into hits by repeated playings throughout the day.

Since studies have indicated that junior high school students relate more to popular music, it should be the stepping stone to more aesthetic experiences. Most general music classes follow a curriculum foundation of music history. Why shouldn't the class be initiated with a study of popular music and its relationship to all other forms of music? Certainly one can trace classical lines to such popular groups as "Chicago" and "Blood, Sweat and Tears."



While cognitive components of music are necessary, research concludes that they need not be structural in nature: A study conducted by Jesse Evans (24), reported that the understnading of the various elements of musical structure appear to have nothing or very little to do with junior high school students' affective response to the various types of music. Perhaps the cognitive components should then be the instruments and the musicians who play them. Let us explore this possibility under two areas: (a) hands-on experience and (b) personal contact with artists.

One of the more successful programs in the schools has been the "Guitar Program." In this program students are taught simple chords and are then capable of using this knowledge for their own entertainment. This hands-on experience sets the stage for appreciation of technical virtuosity and an inspirational experience. If this has been successful for guitar, exploration of other instruments should be investigated for incorporation in general music classes. One who has never tried to play a musical instrument is less likely to appreciate the time and skill necessary to achieve some degree of mastery.

A study by Butler (11), found that personal contact with artists seemed the most effective means of preparing students for a performance. The interest created in students this way is further demonstrated by the success of artist clinics sponsored by manufacturers of musical instruments. A synopsis of what research suggests is:

1. Children's attitudes toward music seem to be more closely related to actual experiences than to any other factor.

- 2. Repeated listenings increase the pleasure of hearing musical compositions.
- 3. Junior high school students relate better to popular forms of music.
- 4. Hands-on. experiences can provide a basis for appreciation.
- 5. Personal contact with artists creates student interest.

Art

Many of the ideas suggested for music can be applied to art appreciation. Specifically, research indicates that repeated exposure to art can provide a basis for appreciation and the use of aesthetic principles. Child (15) states that art appreciation can occur simply through repeated exposures, even without formal instruction. However, the Better the instruction, the greater the sophistication in judgments of art. Kuhn (35) found a highly significant correlation between extensive art instruction and better attitudes toward art.

Hands-on art experiences help children understand and appreciate art forms. They should be augmented by personal contact with artists in all medias.

Suggested intervention techniques are:

- 1. Frequent planned trips to art galleries.

 Geographic areas isolated from cultural centers should invest in a variety of grints and materials to be displayed in the school. Plans should also be made for at least two field trips per year to cultural centers.
- 2. Related arts programs should be investigated for incorporation in the curriculum.

- 3. Children should be exposed to hands-on experiences in all medias.
- 4. Local artists should be invited to provide demonstrations, clinics and lectures.

Drama and Dance

As in music and art, systematic exposure to performances and performers have the greatest impact on student attitudes toward drama and dance. A single offering a year has little impact on students.

Butler's study (11) showed that a student's evaluations of the performances—liking or not liking—were directly related to how relevant each performance was to the student's age. Stern (44) found in a study that, where drama was concerned, administrators, teachers and students agree on the necessity of studying plays before seeing the performances.

RESOURCE INFORMATION AND ONGOING PROGRAMS (Aesthetic Education)

Many of the current strategies and ongoing programs deal with aesthetic education, combining the subject areas of art, music, drama and dance. These resources may help school districts wishing to institute programs related to Goal IX. While this represents only a small sample, it may give the district entree to programs and resource people.

The Pennsylvania Aesthetic Education Program, for instance, is an ESEA Title III cooperative effort between the Bethlehem Area School District, the Fine Arts Program of the Pennsylvania Department of Education, and CEMREL, INC. Its purpose is to hold workshops and develop media packages for school districts. Through the house organ, "The Arts File," schools receive a series of activity cards for "hands-on use." These cards, over a period of time, can be used as a developing resource for teachers.

Professional staff from the Bureau of Curriculum Services,

Pennsylvania Department of Education, are ready to help school districts'
revise their arts curriculums. A publication, The Arts Process in

Basic Education, can be obtained from the bureau.

The publication, Arts Impact: Curriculum for Change, A Summary Report, prepared by the Arts IMPACT Evaluation Team, The Pennsylvania State University, summarizes projects across the country and identifies resource people.

Literature

Student attitudes toward literature may branch into other subject areas, as illustrated by reviewing the instrument items. Several statements were made this way: "It would be interesting to read about famous athletes." Similar statements are made in seeking information on student attitudes toward scientists, musicians and politicians.

Therefore, student attitudes toward literature should be of utmost concern to the school district.

"Schools Influence Critical Approaches to Literature, but
Students Learn Appreciation at Home," the title of an article published
in the November 1973 issue of National Assessment (39), points out
that a large number of teachers spend a great deal of time dealing with
the critical analysis of literature and its component parts. The
question is, "Does this approach turn students off to the real joys of
reading and literature?" Perhaps we have abandoned "appreciation" in
the schools and relegated it to chance existence in the home. Walter
Loban, reporting in the English Journal, indicates that too many teachers
have evaded genuine literary response by retreating to their intellectual
and theoretical college studies: structure, point of view, genre,
archetypes and aesthetic distance. These formal elements, though
valuable in their own place, can easily become substitutes, cool cognitive
refuges from the total experience.

To purge one's self of emotional involvement and limit response to analytical and intellectual interests has been the message of contemporary critics and scholars, but it has proved to be a blighting



message. Even the most intellectual university students now reject it, and it is necessary that literature teachers also reject it.

To this end, school districts might look into approaches that foster a desire to read. Hooked on Books: Program & Proof, by Daniel Fader and Elton McNeil (25), provides some theories, suggestions for obtaining results, example study guides, and a list of suggested paperbacks.

Few will argue that the first step in appreciating literature is to foster a desire to read. Students turned off on books are closed to the literary emotionality necessary for appreciation. Once the student enjoys reading literature, then the critical analysis, including structure, genre and point of view, can follow.

The examination of life through literature can result only from reading books that have a genuine impact on the individual. The teacher's major goal should be to guide the students' selection of books and to help adolescents read literature as human experience—not to dwell on a fixed number of books, a smattering of biographical data, or an overload of formal elements. Such information may support and extend a student's knowledge, but it can never supplant the reader's authentic response.

<u>Science</u>

A wealth of research has been completed on student "attitudes" toward science and scientists. A comprehensive review of this literature by Lewis and Dorothy Aiken in the October 1969 issue of <u>Science Education</u>
(2) indicates that "attitude," as used in the literature on science education, has multiple meanings. Further, it is important to know

precisely which meaning a given writer is using in order to understand.

and evaluate his or her research. The majority of studies on

"attitudes toward science" have been concerned with affect or feeling—

like vs. dislike—toward science in general or toward a particular

science. Other investigations have dealt with "attitude toward

scientists," which refer to like vs. dislike or approval vs. disapproval

of the activities engaged in by scientists and the kinds of people

that scientists are. The Rationale of Goal IX is not to increase

scientific achievement or to encourage more students to become scientists,

but rather to develop in students a more positive attitude toward

science and scientists.

H. Allen (3) found that many high school students misunderstand and are confused by the public image of scientists and science. Tuominen (49) suggests, as the result of an experiment, that students be allowed to mix and mingle with scientists. He contends that interacting directly with scientists in the laboratory helps students overcome the stereotype of the scientist as unsociable, inhuman and generally ineffectual.

W. T. Tatara (45) suggests that reading selected novels about scientists will affect student attitudes and ideas about scientists. However, he points out, reading does not have any significant effect on students understanding of science, nor does it encourage more a students to become scientists.

Several studies show that pupil attitudes toward science are affected by the attitudes of their teachers. The same premise was asserted in Proposition #1 of this chapter.



Teaching methods (modern vs. traditional) have also been suggested as affecting student attitudes. Charen (13) compared an open-ended, inductive approach with a traditional, deductive approach in the teaching of high school chemistry. He obtained attitude measures from observing 268 students through discussions with them and their teachers, and from a questionnaire. The students were more positive toward the inductive approach because it made them think and feel like real chemists; it gave them more freedom in the laboratory; and it was more challenging, interesting, enjoyable and stimulating than the traditional approach.

The most elaborately-designed study reviewed was that of L. F. Lowery (36). This study involved 335 California 5th graders, divided into experimental and control groups who were matched for IQ at each of three socioeconomic levels. The experimental group received instruction in a National Science Foundation-sponsored science unit on animal coloration. The control group was taught a comparable science unit on the topic of animals from the California textbook series. Among the results was a significant change in attitudes toward science in the experimental group, but not in the control group, at all SES levels.

M. Kendall (33), measuring attitudes toward science by observing overt student behaviors in science classes, produced evidence to indicate that a significant difference in positive attitude as measured by Vitrogan's Attitude Toward Science Scale, exists between those classes practicing and not practicing the following behaviors:

(1) the student contributes to the procedure in solving a laboratory problem, (2) the student develops ways of testing his proposed conclusions,

(3) the student selects the mathematical operations to be performed on quantitative information, (4) the student writes an essay report, and (5) the student suspends final judgment on experimental outcomes until the data has been analyzed.

Several other articles describe classroom procedure which reportedly help develop attitudes. For example, Curtiss et al. (20) discusses the use of a science activity center, science interest boxes, and problems requiring inductive thinking to stimulate positive attitudes and interests among children. Bernatowicz and Kay (9) describe their use of a sealed black box with small observation holes punched in it and containing various objects to teach such scientific attitudes as the difference between theory and observation, dependence on facts rather than authority, and the ability to draw valid inferences from facts. Similarly, Hyer and Hyer (32) outline a "parlor trick" approach which involves the demonstration of some phenomenon which the class then attempts to explain by guessing or speculating and coming to a conclusion either individually or in groups.

Finally, Drummond (22) points out the need to present science in the proper cultural context in order to avoid misunderstandings and mistaken attitudes concerning science and scientists.

In summary, four general suggestions can be gleaned from the

- Expose students to personal contact and interaction with scientists by planning field trips to laboratories.
- 2. Provide selected reading materials that present scientists in a positive manner.



- 3. Emphasize the amount of teacher influence on student attitudes toward science.
- 4. Study and select appropriate classroom procedures and techniques.

<u>Government</u>

Research indicates that despite the obvious need for improvement in formal political education programs, reforms will probably have limited impact on the way young people relate to the political system. The reason is that while students learn about government and politics through the formal curricula and what instructors teach, they also learn by observing and experiencing the extent to which democratic values and processes are really adhered to in the life of the school as a social system. As many observers have noted, what students are taught and what they themselves observe usually lead to different conclusions. It seems unlikely that students will take seriously the admonition to "do as we teach, not as we do." In otherwords, the contribution that educators can make to the development of a deep respect for democratic values and predisposition to see politics as an appropriate and useful vehicle, is to make schools themselves workable models of democracy.

Willis D. Hawley, in his <u>Theory Into Practice</u> (29), enumerates school practices which discourage students from defining for themselves a sufficiently positive and active role in the political system. The following are Hawley's hypotheses:

1. The more emphasis the teacher places on compliance to rules and authority, the more likely a student is to develop passive and authoritarian attitudes toward politics and the political system.



- 2. To the extent that teachers encourage student participation in the class and ask for less difference from them, they foster the development of attitudes and skills consenant with democratic values.
- 3. Students in schools in which free expression is encouraged, and where controversial issues are discussed openly, are more likely to develop a strong commitment to that value and to understand its civic utility.
- 4. To the extent that teacher attitudes not related to achievement are major determinants of rewards for achievement, students will be cynical about the possibility of objective and fair application of law in the larger society.
- 5. To the extent that students are provided with opportunities for expression, and are encouraged to question and seek recourse from what they perceive as misuse or a mistaken exercise of authority (such as evaluations of their performance), they will develop a sense of trust in the political system, a belief that those in authority should be accountable for their actions, and an appreciation for the right and propriety of positive political activity to redress social and personal grievances.
- 6. To the extent that students are involved in the actual formulation of school and classroom policies, they will develop a predisposition to participate activitely and democratically in the political process, and the capacity to do so.
- 7. To the extent that principals, teachers and other staff members treat each other with respect and deal with important issues in a democratic way, students will be committed to democratic approaches to decision-making.
- 8. Students who attend schools which are racially integrated, and where classrooms are not segregated by "ability," are less likely to manifest racial or social class intolerance.

Hawley, though perhaps abrasive in presenting his hypotheses, presents an interesting point of view about the organizational structure of schools and their impact on student attitudes toward politics.

Administrators might well take an inventory of school practices to determine whether undemocratic situations exist, and, if so, take corrective measures.

Religion (Grade 5 only)

Two of 38 questions in the Grade 5 instrument deal with religion. They are divided equally between the subscales. Due to this small sample, it is questionable whether an adequate diagnosis of attitudes can be made. However, a noticeable discrepancy might create concern in the local district. For this reason, the teacher should investigate materials from the text, Religious Literature of the West (41), as a resource to help students understand religions of the world. Further information can be obtained by contacting the PDE's Bureau of Curriculum Services.

Ecology

Positive attitudes toward the environment and environmentalists is of utmost importance today and in the future. Schools who determine their students lack a positive attitude toward the environment and environmentalists will find a wealth of resources available to them.

The Report of the Pennsylvania Environmental Education Advisory Council is an excellent publication to investigate if the school wishes to institute an environmental education program. This report provides descriptions of the types of environmental education programs that can be instituted in the school. Briefly, it suggests eight types of programs that can be developed and utilized by the school district. They are:

Type 1--Interdisciplinary Courses

Type 2--Single Discipline Courses

Type 3--Environmental Units or Mini-Courses

Type 4--Environmental Community Action Emphasis

Type 5--Environmental Awareness Emphasis

Type 6--Environmental Study Areas

Type 7--Special Environmental Emphasis

Type 8--General K-12 Programs

In addition to providing program descriptions, the Report also lists, by name, the schools in Pennsylvania presently using one or more detailed information about environmental education should obtain this Report from the Senior Advisor for Environmental Education, Box 911, Harrisburg, Pennsylvania 17126.

Athletics

The attitudes of students toward athletics is the most positive of any subject area examined. Those involved in athletics appear. to have done their "homework" in public relations, so no attempt will be made in this paper to deal specifically with strategies to effect better student attitudes toward athletics.

BIBLIOGRAPHY

- 1. Aesthetic Education: A Social and Individual Need, CEMREL, Inc., St. Louis: 1973.
- Aiken, Lewis R., Jr. and Aiken, Dorothy R., "Recent Research on Attitudes Concerning Science," <u>Science Education</u>, October 1969. Vol. 53, No. 4.
- 3. Allen H., "Attitudes of Certain High School Seniors Toward Science and Scientific Careers," <u>Science Manpower Project Monographs</u>,
 New York: Bureau of Publications, Teacher Collège, Columbia
 University, 1959.
- 4. Arts Impact: Curriculum for Change. A Summary Report, U.S. Office of Education, The U.S. Department of Health, Education and Welfare. Washington, D.C.: 1973.
- 5. Bagin, D. and Others, <u>School Communications: Ideas That Work</u>. <u>A</u>

 <u>Public Relations Handbook for School Officials</u>. McGraw-Hill

 <u>Publications</u>, Chicago, Ill.: 1972.
- 6. Barlow, R. J. G., "Social Responsibility of the Science Educator,"

 <u>Science Education</u>, 1961, 45: 373-376.
- 7. Bartlett, D. L., The effect of Repeated listenings on ability to recognize the structural elements in music and the influence of this ability on attitudinal shift. (Doctoral dissertation, Kansas State University) Washington, D.C.: United States Government Printing Office, ERIC Documents, 1969, No. ED 035-380.
- 8. Baumel, H. B., and J. J. Berger, "An Attempt to Measure Scientific Attitudes," Science Education, 1965, 49: 267-269.
- 9. Pernatowicz, A. J., and E. A. Kay, "Scientific Attitudes, Certainly, and the Black Box," <u>Journal of General Education</u>, 1961, 13: 25-29.
- 10. Bullock, Robert P., <u>School-Community Attitude Analysis for Educational Administrators</u>, Columbus, Ohio: College of Education, The Ohio State University.
- 11. Butler, Sister Loretta M., The Effect of the Experience of Performances in the Arts, with and without preparation, on the Attitudes of Sixth Grade Children. (Doctoral Dissertation, Fordham University)
 Ann Arbor, Michigan: University Microfilms, 1973.
- 12. Bush, R. N., The Teacher-Pupil Relationship. New York: Prentice-Hall, 1954.
- 13. Charen, G., "Laboratory Methods Build Attitudes," Science Education, 1966, 50: 54-57.

- 14. Child, I. L., "Observations on the Meaning of Some Measures of Aesthetic Sensitivity." <u>Journal of Psychology</u>, 1964, 57, 49-63.
- 15. Child, I. L. and Schwartz, R., "Exploring the Teaching of Art Values." --Journal of Aesthetic Education, 1966, 2, 41-54.
- 16. Coleman, James S., et. al., <u>Equality of Educational Opportunity</u>. Washington, D.C.: U.S. Government Printing Office, 1966.
- 17. Cook, W. W., Leeds, C. H., & Callis, R., Minnesota Teacher Attitude
 Inventory: Manual, New York: Psychological Corporation, 1950.
- 18. Cossman, G. W., "The Effects of a Course in Science and Culture Designed for Secondary School-Students." Unpublished Ph.D. dissertation, University of Iowa, 1967.
- 19. <u>Croft Leadership Action Folio</u>, Croft Educational Services, Inc., New London, Conn.
- 20. Curtiss, M. E., Woodley, and S. Irving, "4 Ways to Make Science Count," <u>Grade Teacher</u>, March 1968, 85: 84-85.
- 22. Drummond, A. H., "Science and the Cultural Matrix," Clearing House, 1964, 39: 237-241.
- 23. Eames, Thomas H., "Attitudes and Opinions of Adolescents. The Adolescent Speaks," <u>Journal of Education</u>, 147: 1965.
- 24. Evans, J. G., The effects of especially designed listening experiences on junior high school students' attitudes toward music. (Doctofal dissertation, Indiana University) Ann Arbor, Michigan: University Microfilms. 1966, No. 66-1444.
- 25. Fader, D. N. and E. B. McNeil, <u>Hooked on Books: Program & Proof</u>, Berkley Publishing Corporation, New York, 1968.
- 26. Flanders, N. A., <u>Teacher Influence</u>, <u>Pupil Attitudes</u>, <u>and Achievement</u>. Washington, D.C., Government Printing Office, Document No. OE-25040, 1965.
- 27. Graham, Grace, The Public School in the American Community, New York: Harper & Rowe, 1963.

- 28. Haney, R. E., "The Development of Scientific Attitudes," Science Teacher, December 1964, 31: 33-35.
- 29. Hawley, Willis D., "Political Education and School Organization,"

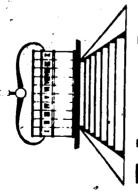
 Theory Into Practice, December 1971, Vol. X, No. 5: 328-335.
- 30. Hedley, 'R. L., "Student Attitude and Achievement in Science Courses in Manitoba Secondary Schools." Unpublished Ed.D. dissertation Michigan State University, 1966,
- 31. Higgins, M. J. and N. S. Archer, "Interaction Effect of Extrinsic Rewards and Socioeconomic Strata," <u>Personnel and Guidance Journal</u>, December 1968.
- 32. Hyer, X. E., and M. D. Hyer, "Parlor Tricks That Help to Stimulate Scientific Thinking," Grade Teacher, May-June 1965, 82: 42-43.
- 33. Kendall, Marvin R., Scientific Behaviors Promoting an Understanding of Science and a Positive Attitude Toward Science as Exhibited by Selected High School Physics Classes. (Doctoral Dissertation, University of Massachusetts). Ann Arbor, Michigan: University Microfilms, 1970.
- 34. Krugman, H. E., "Affective Reaponse to Music as a Function of Familiarity," <u>Journal of Abnormal and Social Psychology</u>, 1943, 38, 388-392.
- Kumin, M., The effects of art instruction on the attitudes of college students toward contemporary paintings. (Doctoral dissertation, Syracuse University) Ann Arbor, Michigan: University of Microfilms, 1963. No. 63-6747.
- 36. Lowery, L. F., "An Experimental Investigation Into the Attitudes of Fifth Grade Students Toward Science," School Science Mathematics, 1967, 67: 569-579.
- 37. McCloskey, Gorden, Education and Public Understanding, New York: Harper and Rowe, 1967.
- 38. Mielke, W. E., "Method and Viewpoint" on Collecting and Learning Common Names of Local Plants," American Biology Teacher, 1962, 24: 122-124.
- 39. National Assessment of Educational Progress, "Report 02-1-02, Responding to Literature" (Washington, D.C.: U.S. Government Printing Office, 1973).
- 40. Pepinsky, M., Sixth grade children's attitudes toward the music of Gluck, Hadyn, and Mozart, and other music. (Doctoral dissertation, Indiana University) Ann Arbor, Michigan: University Microfilms, 1959, No. 59-5318.

- 41. Religious Literature of the West, Bureau of Curriculum Services, Pennsylvania Department of Education, 1969.
- 42. Rump, E. E. and Southgate, J., "Variable Affecting Aesthetic Appreciation in Relation to Age," <u>British Journal of Educational Psychology</u>, 1967, 37, 58-72.
- 43. Stearns, Harry L., Community Relations and the Public Schools, Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1955.
- 44. Stern, H. G., Educational Laboratory Project: Coordinator's Report (Ed.) St. Ann, Missouri: CEMREL, 1970.
- 45. Tatara, W. T., "Effect of Novels on Ideas About the Scientist,"

 Journal of Educational Research, 1964, 58: 3-9.
- 46. Arts Process in Basic Education, Bureau of Curriculum Services, Pennsylvania Department of Education, 1973.
- 47. Torney, J. and Hess, R., New methods for measuring the development of attitudes in children. (Doctoral dissertation, University of Chicago) Washington, D.C.: United States Government Printing Office, ERIC Documents, 1965, No. Ed 011-080.
- 48. Tucker, W. T., Experiments in aesthetic communications. (Doctoral dissertation, University of Illinois) Ann Arbor, Michigan: University Microfilms, 1955. No. 15280.
- 49. Tuominen, W. O., "Contact With Scientists Changes Student Attitudes; Students Learn Scientists Are Vital Human Beings," Chicago Schools Journal, 1964, 56: 13-16.
- 50. Yee, Albert H., <u>Factors Involved in Determining the Relationship</u>

 <u>Between Teachers and Pupils' Attitudes</u>. ERIC REPORT ED 010-336:
 1966.

APPENDTY A



Educational Quality Assessmen

A Status Profile School Report:

0

Pennsylvania Department of Education 1973

DATE HUN = C8/08/73. >>>

STUDENT OUTPUTS:

GENERAL SUMMARY:

Number of student booklets scored for this goal

Mean raw score expected for the schoo! 16.14 8A 10 59.31 15.40 - 16.47 76.36 50.66 58.91 61.19 47.28 55.10 - 09.95 57.85 -- 19-19 52.38 -73.48 -15.14 -64,52 -16.83 -42.31 -48.75 -¥91 2 2 ACTUAL SCHOOL SCORE 062 11 15.45 73.33 . 54.35 57.94 17.09 58.44 62.91 65.55 44.21 50.64 NUMBER 280 280 281 286 286 285 281 285 280 280 **58**0 APPRECIATING HUMAN ACCOMPLISHMENTS REPARING FOR A CHANGING HORLD BASIC SKILLS: VERBAL UNDERSTANDING OTHERS VOCATIONAL KNOWLEDGE BASIC SKILLS: MATH VOCATIONAL ATTITUDE AREA INTEREST IN SCHOOL HEALTH HABITS SELF ESTEEN CI TIZENSHIP Shortened name for the goal CREATIVI TY 52 VI 1 I-K A-311 1400 117

HARRISBURG: PA. DEPARTMENT OF EDUCATION. FOR COMPLETE INFORMATION, SEE <u>MANUAL FOR INTERPRETING INTERMEDIATE/SCHOOL REPORIS, 1973;</u>

Mean raw score of the student booklets_scored

Percentile rank in state for this school in each goal area

CCC EUA, PHASE I

Distances based on Z-scores (see Appendix C)

CONFIDENCE INTERVALS

	SELF ESTEEM	# XXXXAXXXX
	UNDER STANDING OTHERS	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
A-11]	BASIC SKILLS: VERBAL	E XXXX V
₩-111	BASIC SKILLS: MATH	AXXXXX A
	INTEREST IN SCHOOL	N N N N N N N N N N N N N N N N N N N
•	GIT IZ ENSHIP	XXXXXXXX
	HEAL HABITS	XXXXXXXX
	CREARIVITY	AXXXXXXX R
V 1111V	VOCATIONAL ATTITUDE	W WXXXXXXXX
VIII-K	VOCATIONAL KNOWLEDGE	E XXXXX
	APPRECIATING HUMAN ACCOMPLISHMENTS	* XXXXXXXXXXX
	PREPARING FOR A CMANGING WORLD	EXXXXXXXXX V

AN 'A' IN THE TABLE DESIGNATES THE LOCATION OF THE OBSERVED, ACTUAL SCHOOL VALUE. N. 8.

"M" IS USED TO REPRESENT THE MEDIAN (SOTH TILE).

THE XX ... XX BAND IS THE EXPECTATION BAND.

2. INJEPENCENT (PREDICTOR) VARIABLES:

A. FRUM ADMINISTRATORS AND GEPARTMENT RECURDS:

VARIABLE NAME	ACRONYM	¥	SCHOOL	SCHOOL NUMBER
			-	- 045-4-140
GRADE ENROLLMENT		, ,		•
	GRENKULL) ()	7	-
TEACHE TO THE TEACHER	PCTATTEN	94.00	4	-
TEACHER HULDING FUNER	THOLOPON	86.17	21	-
THE TOUR OF SECTION OF	HOUS ING	3.65	40) <u></u>
SCHOOL LUCATION	SLOCATE	4.00	0	-
SCHOOL INNOVATE	INNOVATE	24.00	06	
TATAL STATE STATE	STAFFP	1:27.5	80	-
	INSEXADM	556.00	4	•
ENROLLAENT	EMROLCAP	96.64	<u>~</u>	,
THE COURT OF THE C	TEXPER	11.70	67	*
AND TARK TARK	TAGE	36.78	57	*
SCHOOL STATES	TEDUC	4.26	-	*
FER LEGI FERALE IEACHERS	PCIFER	54,35		-

B. FROM TEACHERS:

YAKTABLE NAME	ACBONYB : MEAN	BEAN	SCHOOL	CHOOL NUPBER Sile Replying
TEACHER LOCALE		•	·	
	ILUCALE	1.62	26	\$
TACATE CAREEN	TCAREER	2.14	-	*
EACHER SATISFACTION WITH RELATIONSHIPSPARENTS	TCATOAB			; ;
TACKED CATACHACTER LAWS BOLD TO SECOND CONTRACTOR	* XX1.40.	6.30	7	*
THE CONTRACT OF THE CONTRACT O	TSATES	3.53	73	\$
TEACHER SAILSFACTION MITH RELATIONSHIPSPRINCIPAL	TSATPRIN	2.44	-	54
EACHER SATISFACTION WITH RELATIONSHIPS—STUDENTS	TCATCT			• •
BACHER PERCEPTION OF STROOT ADMINISTRALION			7	7
NOTIFICATION AND AND AND AND AND AND AND AND AND AN	PERSAU	15.29	20	\$
EACHER PERCEPTION OF DISTRICT ADMINISTRATION	PEROAD	4.67	5	4
CLASSRUUM PRACTICES	TOWARD.			
DISCO EPANCY		0	70	•
	DISCREP	7.8C	99	£.
TEACHER FERNING OF LEAKING ATMOSPHERE	PERLERAT	13.20	E \$.	94
LEALHER ZELUDENI RELATION SHIPS	ISRELATE	18.82	77	4

<<< TLOCALE >>>

WHERE MAVE YOU SPENT MOST OF YOUR LIFE?

	•	!
	ARE	
	IN THIS STATE, BUT OUTSIDE THIS TOWN, EITY OR IMMEDIATE AREA	
	Š	
	EITY	
	TCHN.	IN THIS TOWN, CITY OR IMPECIATE AREA
	THIS	LATE
	SIDE	IFFE
	3	ð
TATE	BUT	CITY
S	ITE,	ž
Ξ	ST	Ö
SIDE	THI S	FIS
OUT	<u>z</u>	z

<u>^</u> CCC TLAREER

LIKE	
YCO	
■ Lulu	
LATEK.	
3	
ر پر	
UPPORTUNITY	
Ŧ	
Y'JU HAD	
<u>u</u>	
Ĺ	

	• &	Very satisfied Somewhat satisfied	Very dissatisfied
W M M		//	VS 55 50 VO
ACHER	*******		≯
TION LUTSIDE EDUCATIÓN FION IN LUUCATION LIMER THAN CLASSRUUM TEACHÉR A CLASSKUUM TEACHER		<<< ISATPAR; TSATES; TSATPKIN; TSATST >>2	YOU WITH
IN TER THAN OL	**********	IFS: TSATI	SITUAFIUN HON SATISFIEL ARE YOU WITH
EDUCATION CIP	*********	PAR; TSA	HOL SATE
TION LUTSIDE EDUCATION TION IN EUUCATION LIME! A CLASSKUUM TEACHEN	********		SITUATIUN HIPS MITH:
TAKF A PUSITIC TARF A POSITIC	******	•	IN YOUR TEACHING YOUR RELATIONSH
TAKF TAKP JONT			IN YOUR R

compared to the state averages; These item replies can be see Table 9

PARENTS AND PARENT GRUUPS FELLUM STAFF MEMBERS THE SCHOOL PRINCIPAL STUDENTS

^ PERLERAT

>>

(PER CENT - YES RESPUNSES) T SURVEY OF SCHOOL PRUBLEMS:

•		
THE HOME ENVIRONMENT OF THE PUPILS IS NOT GOUD	_	378
S ARE NUT WELL FED AND WELL CLOTPED		33%
THE DIFFERENT RACES OR ETHNIC GROUPS DON'T GET ALONG		80
PARENTS ATTEMPT TO INTERFERE WITH THE SCHOOL	•	195
IS TOO MUCH COMPETITION FOR GRADES		202
IS TUD: MUCH EMPHASIS ON ATHLETICS		354
ARE TOO MANY ABSENCES AMONG STUDENTS	1**	398
LASSES ARE TOC LARGE FOR EFFECTIVE TEACHING	_	80%
THERE SHOULD BE A BETTER MIXTURE, THE STUDENTS ARE ALL TOD MUCH OF		26%
TYPE	•	
TOO MUCH TIME HAS TO BE'SPENT ON DISCIPLINE	_	203

FEACHERS MAVE TOO LITTLE FREEDOM IN SUCH MATTERS AS TEXTBOOK SELECTION. CURRICULUM, AND DISCIPLINE THE PARENTS DON'T TAKE ENCUGH INTEREST IN THEIR CHILUREN'S SCHOOL, WORK WE HAVE POOR INSTRUCTIONAL EQUIPMENT: SUPPLIES, BOUKS, LABORATORY HERE IS A LACK OF EFFECTIVE LEAGERSHIP FROM THE SCHOOL ADMINISTRATION THE PARENTS PUT TCC MUCH PRESSUME ON THE STULENTS FOR GOOD GRADES ABLE TC MORK WELL TOGETHER STUDENTS AREN'T REALLY INTERESTED IN LEARNING THERE IS TOO MUCH STUDENT TURNCVER TEACHERS DON'T SEEM TC. BE

28**%** 57**%** HERE ARE TOO MANY INTERRUPTIONS CURING CLASS PERTUDS THERE IS TOU MUCH TURNUVER OF ADMINISTRATURS S TOO MUCH TEACHER TURNEVER EQUIPMENT, ETC.

162

651

FATFER'S OCCUPATION CCCPATIONAL DESIRE DCCUPATIONAL EXPECTATION CCCPATIONAL EXPECTATION DCCCPATIONAL EXPECTATION DCCCPATION DCCCPATI	VARIABLE MAME		ACRUNYB	HEAN	STEE	REPLATING
OCEXPECT. 46.35 25 OCEXPECT. 40.93 31 PCTGIRLS 49.83 50 MEDUC 3.96 53 MEDUC 3.96 53 ESIDE 1.76 30 PCTWHITE 97.20 77 LIBRARY 4.64 91 COUNSEL 4.70 12 STABLE 4.70 12 PARATT 5.15 10 MORESA 3.34 32 MORESA 3.34 37	FATHER'S OCCUPATION		FOCC	35,31	57	569
OCEXPECT, 40.93 31 PCTGIRLS 49.83 50 MEDUC 3.96 53 RESIDE 1.76 30 PCTWHITE 97.20 77 LIBRARY 4.64 91 COUNSEL 4.70 12 PARATT 5.15 10 MORESG 3.39 17 VALUES 4.71 68 HOMECLIM 12.85	SCCLPATIONAL DESIRE		OCOESIRE	46.35	25	275
PCTGIRLS 49.83 50 MEDUC 3.96 53 RESIDE 1.76 30 PCTWHITE 97.20 77 LIBRARY 4.64 91 COUNSEL 4.59 30 STABLE 4.70 12 PARATT 5.15 10 MORESG 3.39 17 VALUES 4.71 68 HOMECLIM 12.85	SCCUPATIONAL EXPECTATION	•	OCEXPECT,	40.93	31	276
RESIDE 1.76 30 RESIDE 1.76 30 PCTWHITE 97.20 77 LIBRARY 4.64 91 COUNSEL 4.49 30 STABLE 4.70 12 PARATT 5.15 IO MORESG 3.34 17 VALUES 4.71 68 HOMECLIM 12.85	PER CENT GIRLS		PCTGIRLS	49.83	20	-
RESIDE 1.76 30 PCTWHITE 97.20 77 LIBRARY 4.64 91 COUNSEL 4.49 30 STABLE 4.70 12 PARATT 5.15 IO MORESG 3.39 17 VALUES 4.71 68 HOMECLIM 12.85	TOTHER'S EDUCATION .		MEDUC	3.96	. 53	285
PCTWHITE 97.20 77 LIBRARY 4.64 91 COUNSEL 4.49 30 STABLE 4.70 12 PARATT 5.15 IO MORESG 3.39 17 VALUES 4.71 68 HOMECLIM 12.85	TYPE, OF COMMUNITY		RES 10E	1.76	30	287
ā.	PER CENT WHITE STUDENTS		PCTWHITE	97.20	11	_
-	ACCESSIBILITY OF LIBRARY		LIBRARY	4.64	16	207
-	ICCESSIBILITY OF COUNSELOR		COUNSEL	64.4	30	287
	STABILITY OF STUDENT RESIDENCES		STABLE	4.70	12	207
	PARENTAL ATTITUDE TOWARD SCHOOL		PARAIT	5.15	01	285
	WRES80YS		MORESE	3.94	32	582
	IORESGIRLS		MORESG	3.39	17	282
	FR SONAL VALUES		VALUES	4.71	;	203
	ONE CLINATE		HONECL IN	12085	9	280
		K RESIDE >>>				
<pre> <!-- reside -->>> </pre>	IN WHAT TYPE OF COMMUNITY ARE YOU NOW LIVING?	NOW LIVING?		•		

278	712	=======================================	ğ	1 0	**	80	10	
	SUBURB			•	-		•	•
	⋖							
IN THE OPEN COUNTRY OR IN A FARMING COMMUNITY	IN A SMALE TOWN (LESS THAN 10,000 PEOPLE) THAT IS NOT A SUBURB	INSIDE A MEDIUM SIZE CITY (10,000 TO 100,000 PEOPLE)	INSIDE A LARGE CITY (100,000 TO 500,000 PEOPLE)	IN A VERY LARGE CITY (OVER 500,000 PECPLE)	IN A SUBURB OF A MEDIUM SIZE CITY	IN A SUBURB OF A LARGE CITY	IN A SUBLING OF A VERY LARGE CITY	
•	•							

<<< PCTUALITE >>>

MHICH OF THE FOLLOWING BEST DESCRIBES YOU?

|--|

CCC LLBRARY >>>

HOW UFTEN ARE YOU ASLE TO USE THE SCHCCL LIBRARY?

AS OFTEN AS I NEED TO FREQUENTLY. BUT NOT AS CFTEN AS I WOULD LIKE TO

פעה						A) most	Ubually Sometimes Never	·
0 22 4	•			:	•		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	·94 114 124
ONLY TWO UK THREL CAYS A WEEK "J'ILY WHEN MY CLASS IS SCHEGULED FLR LIERARY WURK THERE IS NO LIGRARY IN THIS SCHOOL	se de la compose	HOW UFTEN ARE YOU AGLE TO TALK WITH YOUR GUIJANCE COUNSELUR ABOUT A CONCERN?	WHENEVER I NEED TO UFTEN, BUT NOT AS FREQUENTLY AS I WOULD LIKE TO ONLY WHEN MAKING CLT A CLUSS SCHEDULE ONLY BURING A GROUP GUIDANCE SESSION THIS SCHOOL DUES NCT HAVE A GUIDANCE COUNSELOR	**************************************	HOW MANY DIFFERENT SCHOOL BUILDINGS HAVE YOU ATTENDED WITHIN THE PAST THREE YEARS BECAUSE YOUR FAMILY CHANGED RESICENCE?	MY FAMILY HAS NOT MOVED WITHIN THE PAST THREE YEAKS 2 SCHOOL BUILDINGS 3 SCHOOL BUILDINGS 4 SCHOOL BUILDINGS 5 OR MORE SCHOOL BUILDINGS	<pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pr< td=""><td>MY PARENTS ERJOY HEARING TROUT SCHOOL MY PARENTS FEEL THE SCHOOL IS COING A GOOD JOB MY PARENTS SUPPORT WHAT THE SCHOOL DOES 198 318 398</td></pr<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	MY PARENTS ERJOY HEARING TROUT SCHOOL MY PARENTS FEEL THE SCHOOL IS COING A GOOD JOB MY PARENTS SUPPORT WHAT THE SCHOOL DOES 198 318 398

AMONG THE QUALITIES LISTED BELOW; WHAT IS THE SINGLE BEST MAY FUR A BOY /GIRL TO GET TO BE IMPORTANT AND LOOKED UP TO BY OTHER STUDENTS IN THIS

SCHOOL ?

VALUE S:

MORE SB/ MORE SG:

<<< MORESB-MORESG-VALUES >>>

AMONG THE QUALITIES LISTED BELUM, WHAT CC YOU FEEL IS MOST IMPORTANT TO YOU PERSONALLY, REJAKCLESS OF WHAT UTHERS MAY CHOOSE?

BEING AN ATHLETIC STAR UR CHEFRLEADER BEING GUOD-LUOKING CR ATTRACTIVE CUMING FROM THE RIGHT FAMILY

A LEADER IN SCHUOL ACTIVITIES

BOING WELL IN SCHUCL BEING A LEADER IN SCH BEING FUN TAI BE WITH

BEING BRIGHT AND WELL INFLRMED

MUNESB MORESG VALUES



CATE RUN = LB/CB/73. >>>

- REFERENCED SCURING MODEL GOAL PRUFILES BASED ON CRITERION

THE ASSESSMENT BATTERY AND TO SPECIFY MITHIN EACH THE FOLLOWING INFORMATION IS THIS SECTION IS DESIGNED TO DUTLINE THE CONTENT OF THE SCALES USED IN THE ASSESSMENT BATTES SCALE THE STUDENT PERFORMANCE LEVELS. EACH SCALE'S GENERAL AND SPECIFIC CONTENT IS DISCUSSED. PROVIDED FOR ALL SCALES MEASURING STUDENT ATTITUDES:

GENERAL SCALE DESCRIPTION:

A BRIEF DESCRIPTION OF THE GENERAL CONTENT MEASURED BY THE SCALE TOGETHER WITH THE RESPONSE OPTIONS AVAILABLE TO THE STUDENT. SAMPLES OF POSITIVELY AND NEGATIVELY MORDED STATEMENTS ARE GIVEN.

CRITERION FOR FAVORABLE RESPONSE TO ITEMS:

THIS PARAGRAPH TO ITEMS ARE PREJUGGED TO REFLECT A FAVORABLE OR UNFAVORABLE ATTITUDE. RESPONSES CONSIDERED TO BE FAVORABLE AND THOSE JUDGED UNFAVORABLE. IDENTIFIES THOSE RESPONSE OPTIONS

JE SCH I PT ION: SUBSCALE

THE SCALES USED TO MEASURE THE GOAL AREAS ARE SEPARATED INTO SUBSCALES, EACH REPRESENTING SPECIFIC CONTENT Areas. The descriptions of the subscales are given to the left of the profile chart and identify the Particular dimension being measured. A sample ITEM is given for each subscale.

PROF ILE:

THE PERFORMANCE STANDARD REQUIRES THAT THE STUDENT ANSWER IN A FAVORABLE WAY MORE THAN ONE HALF THE ITEMS COMPRISING THE SUBSCALE. THE PER CENT OF STUDENTS WHO MAVE MET OR EXCEEDED THIS STANDARD IS SHOWN BY A SERIES OF L'S ON THE PROFILE CHART. THE PER CENT OF STUDENTS STATE-WIDE WHO HAVE ANSWERED MORE THAN ONE HALF OF THE ITEMS IN A FAVORABLE WAY IS REPRESENTED BY A SERIES OF S'S. THE PER CENT OF STATE VS. LOCAL A CRITERION-REFERENCED SCURING MODEL IS USED TO GENERATE THE INFURMATION FOUND ON THE PROFILE. MODEL DICHOTOMIZES STUDENT RESPONSES INTL THCSE WHICH ARE CONSIDERED FAVURABLE AND THOSE WHICH CONSIDERED UNFAVORABLE. THE NUMBER OF FAVORABLE RESPONSES IS THEN COMPARED TO A STANDARD. STUDENTS MEETING THE STANDARD ON THE TOTAL SCALE IS ALSO PRESENTED.

.

DATE RUN = C8/08/73. >>>

- SELF ESTEEM CCAL 1

GENERAL SCALE DESCRIPTION:

ITEMS ARE SELF-DESCRIPTION STATEMENTS. TEN ARE PCSITIVELY MORDEO (I'M EASY 10 GET ALONG MITH) AND 26 ARE NEGATIVELY WORDED (THINGS ARE ALL MIXED UP IN MY LIFE). RESPUNSE OPTIONS UPEN IC THE STUDENT ARE (1) VERY MUCH LIKE ME (2) USUALLY LIKE ME (3) USUALLY UNLIKE ME (4) VERY MUCH UNLIKE ME.

RESPONSES (1) AND (2) ARE CONSIDERED FAVORABLE RESPONSES TO PUSITIVELY WORDED ITEMS. RESPONSE OPTIONS' (3) AND (4) ARE CONSIDERED FAVORABLE RESPONSES TO NEGATIVELY WORDED ITEMS. CRITERION FOR FAVORABLE RESPONSE TO ITEMS:

SELF ESTEEM PROFILE

	2001
SCALES	- 101 204 304 404 504 604 704 808 908 10039
ID TUTAL	
N SUB AN	707
IT UDE S O	603
STUDENTS DISPLAYING POSITIVE ATTITUDES ON SUB AND TUTAL SCALES (IN PER CENT)	. 50X
ING POST	
DISPLAY	308
STUDENTS	202
	102
	• • •
SUBSCALE DESCRIPTIONS	AND SAMPLE ITEMS

SUCCESS, SELF CONFIDENCE: FEELINGS OF

OVER ENVIRONMENT: BE-LUCK THAN EFFORT. CONTROL FEEL ING OF

. I OFTEN FEEL PICKED ON BY OTHER KIDS.* RELATIONSHIPS WITH OTHERS: PERCEIVED EASE IN MAKING AND KEEPING FRIENDS AND FEELINGS OF ACCEPTANCE BY OTHER

SELF IMAGE IN SCHOOL: FEELING OF SUCCESS® IN SCHOOLWORK, CLASS RECITATION AND TEACHER RELATIONSHIPS-"I ENJOY BEING CALLED UN IN CLASS.

ררורור ווור וורו וול^{ברו ב}יור הו הרורור וורור הורור הו הורר הו הורר הורר הורר הורר הוררר הוררר הוררר הוררר הוררר 65

- UNDERSTANCING OTHERS COAL II

GENERAL SCALE DESCRIPTION:

AN APPRUACH TOWARD THE STUDENT IE.G., A CRIPPLE WANTS YOU TO BECOME A CLUSE FRIENDI. NINE ITEMS SUGGEST AN AVOIDANCE OF THE STUDENT (E.G., A GIRL WITH A BAC LIMP AVUIDS YOU BECAUSE SPE THINKS YOU MIGHT MAKE FUN OF HER). RESPONSE CHUICES ARE "I WOULD FEEL" (I) VERY UNCOMFORTABLE, (2) UNCOMFORTABLE, (3) COMFORTABLE AND UF RALIAL, RELIGIOUS AND SUCIAL BACKGROUNDS OR PHYSICAL AND MENTAL ATTRIBLIES. THENTY-FOUR ITEMS SUGGEST ITEMS DESCRIBE SITUATIONS WHERE UIFFERING OTFERS INTERACT WITH THE INDIVIDUAL. DIFFERENCES ARE IN TERMS 141 VERY COMFORTABLE.

CRITERION FUR FAVURABLE RESPUNSE TO ITEMS:

RESPONSE OPTIONS (1) AND (2) ARE CUNSIDERED FAVORABLE TO AVUIDANCE ITEMS. UPTIONS (3) AND (4) ARE CON-SIDERED FAVORABLE TO APPROACH ITEMS.

UNDERSTANDING DIHERS PROFILE

SUBSCALE DESCRIPTIONS AND SAMPLE ITEMS

STUDENTS DISPLAYING PUSITIVE ATTITUDES ON SUB AND TOTAL SCALES I IN PER CENT) 30%

1002

903

801

302

\$03

502

OTHERS OF ANOTHER RACE-ISOMEDME WHOSE SKIN COLOR IS DIFFERENT FROM YOURS WANTS TO BECOME YOUR CLOSE FRIEND." RACE: COMPORT WHEN INTERACTING WITH 66

RELIGION: COMFURT MHEN INTERACTING MITH INVITES YOU TO HIS OR HER CHURCH."

OTHERS who are RICHER OR POORER THAN SELF-MANY PEOPLE MUCH POORER THAN SOCIDECONOMIC STATUS: COMFORT MITH YOU MOVE INTO YOUR NEIGHBORHDOD."

HIGHER UR LOWER ABILITY LEVELS TO IS DECIDED THAT RETARGED STUDENTS BE PUT INTO YOUR REGULAR CLASSES. INTELLIGENCE: COMFORT WITH OTHER!

HANDICAP: COMFORT WHEN INTERACTING WITH TOU TUST SHARE A LOCKER WITH SOME-ONE WHO WEARS LEC BRACES."

TOTAL SCALE

 مرٍ

DA TE KLN

9

C8/68/43.

- HASIC SKILLS (VERBAL) 40AL 111-V

GENERAL SCALÉ DESCRIPTIUM:

(A) CAY 15 TO BABY, (B) URCP 15 IPIIUN: " THIS IS A 15-MINUTE TIMED TEST WHICH CURRELATES FIGHLY WITH STANFORD AND IONA VERBAE ACHIEVEMENT TESTS. THE SCALE CONTAINS 30 VERBAL ANALOGIES, EACH PRESENTED IN; A MULTIPLE-FOUR-CHOICE FORMAT. ITEM: BEAT IS TO HEART AS ---- IS TO ----; SAMPLE ANSWER CHOICES: (A) CRY IS TO BABY, (B) D TO MATER, (C) SNAP IS TO TAIG AND (D) TICK IS TO WATCH.

SCORING FOR SCALE:

OF CORRECT ANSLERS GIVEN BY THE TUTAL SCORE IS THE NUMBER ONE PUINT IS GIVEN FUR EACH CCRRECT ANSWER. STUDENT.

DISTRIBUTION OF SCORES:

STATE VS. LUCAL STUDENT SCORES OF FOUR SCORING CATEGORIES USEU BELOW PRESENTS A CUMULATIVE FREQUENCY DISTRIBUTION FOR THE LEFT HAND COLUMN DESCRIBES THE LOWER LIMITS OF EACH THE BAK GRAPH BELOW PRESENTS A CUMULATIVE FREGUENCY DISTRIBUTION THIS SCALE.

SCOR ING CATEGORIES

CUMULATIVE FREQUENCY DISTRIBUTION: VERBAL

CENT UF STUDENTS MEETING OR EXCEEDING CUT-OFFS ă

£5555555

ABOVE. THOSE PASSING THIS CUT-OFF ARE ABOVE THE 18TH PERCENTILE FOR PER CENT SCORING 12: OR STUDENTS IN STATE. CATEGORY 1:

FEGORY 11: PER CENT SCORING 16 OR ABOVE. THOSE PASSING THIS CUT-OFF ARE ABOVE THE 38TH PERCENTILE FOR STUDENTS IN STATE. CAFEGORY 11:

PER CENT SCORING 19 UR ABOVE, THOSE PASSING THIS CUTHOFF ARE ABOVE THE STIM PERCENTILE FOR STUDENTS IN STATE. CATEGORY 111:

PER CENT SCURING 23 OR ABOVE. THOSE PASSING THIS CUT-OFF ARE ABUVE THE BIST PERCENTILE FOR STUDENTS IN STATE. CATEGORY IVE

61

6,

FASIC SKILES (MATH) 140°

GENERAL SCALE DESCRIPTION:

Q

LUGIC, GEUMETRIC PRUCES) AKE (ALI INCLUDED. AREAS TAPPED AKE AN ITHRETIC COMPUTATION, ALGEBRAIC ANG GEOMETRIC COMPUTATION, ALGEBRAIC ANG GEOMETRIC COMPORTION, ALGEBRAIC ANG GEOMETRIC COMPARISON MEASUMENT EACH ITEM & QUANTITY A**83.03, CUANTITY B**VALUE OF 33 UIMES. ANSWER CHUICES: (1) A/IS GREA ER (2) B IS GREATER (3) A=0 (4) NUT ENOUGH INFORMATION TO DECIDE. MATH CUNCEPTS (E.S., SET NITATION, MCOULDE ARITHMETIC, FIC. 1 and ALVANCEL CONCEPTS (E.G., TRIGONCHETRY, ITS ABILITY TO DISCENN SPECIFIC STRENSTHS AND MEANNESSES IN MATH-MENTEL AREAS IS EIMITED. HOMEVER'N III BO-ITEM STAMES TEST WHICH CCHAELATES HIGHLY MITH STANFORD BOND WATH ACHIEVEMENT TESTS. THIS IS A

SCORING FUR SCALE:

ONE POINT IS GIVEN FOR EACH CCRRECT ANSWER. TUTAL SCORE IS THE, NUMBER OF CORRECT ANSWERS GIVEN BY THE STUDENT.

DISTRIBUTION OF SCORES:

STUDENT SCORES ON STATE VS. LOCAL STUDENT SCORES CO OF FOUR SCORING CATEGORIES USED. THE BAK GRAPH BELDM PRESENTS A CUNULATIVE FREQUENCY DISTRIBUTION FUR. IHIS SCALE. THE LEFT HAND COLUMN DESCRIBES THE LEWER LIPITS OF EACH

41

SCOR ING CATEGORIES

FEGORY I: PER CENT SCORING 13 OK ABOVE. THOSE PASSING THIS CUT-ORF ARE ABOVE THE 20TH PERCENTILE FOR STUDENTS IN STATE.

CATEGORY II: [PBR CENT SCORING 16 OR ABBOVE' THOSE PASSING THIS CUT-OF ARE ABOVE THE 39TH PERCENTILE FOR STUDENTS IN SKATE. ECORY III: FER CENT SCORING 19 OR ABOVE. THOSE PASSING THIS COT-OFF ARE ABUKE THE SOTH PERCENTILE FOR STUDENTS IN STATE. CATECORY 111:

ATECORY IV: PER CENT SCORING 22 OR ABOVE. THOSE PASSING THIS CUT-OFF ARE ABUVE THE 79TH PERCENTILE FOR STUBENTS IN STATE. CATEGORY IV:

CUMULATIVE FREQUENCY 'DISTRIBUTION: MATH

PER CENT OF STUDENTS MEETING OR EXCEEDING CUT-UFFS

101

1001

ירורווולוווווווווווווווווווווווווווו

\$555555555555

11111111

CATE RUN = 68/C84/73. >>>

- INTEREST IN SCHOOL CCAL IV

GENERAL SCALE DESCRUPTIUN:

TEEN ITEMS CAST THESE AREAS IN A FAVORABLE LIGHT (E.G., MUST OF MY SUBJECTS THIS YEAR ARE WORTHWHILE). The remaining Items are negatively stated (E.G., Teachers don't know what they are talking about). Re-SPONSE OPTIONS AVAILABLE TO THE STUDENT ARE (1) STRONGLY AGREE, (2) AGREE, (3) UNCERTAIN, (4) DISAGREE, THERE ARE 30 STATEMENTS ABOUT THE SCHCCL, TEACHERS, COURSE CONTENT, AND THE LEARNING EXPERIENCE. FIF-(5) STRONGLY DISAGREE.

CRITERION FOR FAVORABLE RESPONSE TO ITEMS:
RESPONSE OPTIONS (1) AND (2) ARE CUNSIDERED FAVORABLE RESPONSES TO POSITIVELY WORDED ITEMS. OPTIONS (4)
AND (5) ARE CONSIDERED FAVORABLE RESPONSES TO NEGATIVELY WORDED*ITEMS.

INTEREST IN SCHOOL PRUFILE

STUDENTS DISPLAYING POSITIVE ATTITUDES ON SUB AND TOTAL SCALES f IN PER CENT 3.

医脊髓 医脊髓管 医脊髓管 医骨髓 医骨髓 医骨髓 医骨髓 医骨髓 医骨髓 医骨髓 医乳球菌素 医乳球菌素 医乳球菌素 医乳球菌素 601 502 XOX. 30% 20%

1001

806

80%

OMARD LEARNING: WILLINGNESS TO* EXPEND EFFORT TO LEARN AND VALUING THE IMPURTANCE OF CONTINUED LEARNING THROUGHOUT LIFE-"IT IS VERY IMPORTANT TO ME TO LEARN AS MUCH AS I POSSIBLY ATTITUDE

TOWARD SCHOOL SETTING, TEACHERS AND COURSE WORK - MOST OF MY CLASSES THIS ATTITUDE TOWARD SCHOOL: BELIEF SCHOOL ATTENDANCE "IS IMPORTANT; ATTITUDE YEAR ARE BURING.

TOTAL SCALE:

63

SUBSCALE CESCRIPTIONS AND SAMPLE ITEMS

UA [E KUN = CK/CB/78. >>>

- LITIZENSHIP GCAL V

JENERAL SCALE DESCRIPTION:

MUTIVATING CONDITIONS. SUCIAL CONTEXTS ARE GIVEN BY 18 STORIES. EACH POSING A PROBLEM AND SUGGESTING
AN ACTION PRE-DEFINED AS GOOD TH POOR CITIZENSHIP. EACH STORY HAS THREE ITEMS WHICH LIST PUSITIVE CR
NECATIVE CONSEQUENCES RESULTING FROM THE ACTION. STUDENTS ARE ASKED TO DECIDE WHETHER TO TAKE THE ACTION
FUR EACH CONSEQUENCE. SAMPLE STURY: "MORYGN IS IN TOWN WITH HIS FRIENDS. A FIRE BREAKS WUT. PULICEMEN TELL
THE GROUP TO LEAVE THE AREA." SAMPLE ITEM: IF I WERE: MORTON I WOULD OBEY THE POLICE WHEN I KNEW MCST OF IN ITEMS MEASURE WILLINGNESS TO EAHIBIT GOOD CITIZENSHIP IN MANY SUCIAL SITUATIONS UNDER A VARIETY OF MY FKIENDS WERE STAYING DESPITE THE GRUER. RESPONSE CHOICES ARE (1) YES, (2) MAYBE, (3) NO.

CRITERIUN FOR FAVORABLE RESPONSE TO ITEMS:

RESPONSE OPTION (1) IS CONSIDERED FAVORABLE WHEN THE SUGGESTED ACTION REFLECTS GOOD CITIZENSHIP. CPTION (3) IS FAVORABLE WHEN THE SUGGESTED ACTION REFLECTS POOR CITIZENSHIP.

CITIZENSHIP PROFILE

SUBSCALE DESCRIPTIONS AND SAMPLE ITEMS

***** UDENTS DISPLAYING POSITIVE ATTITUDES ON SUB AND TOTAL SCALES ***** (IN PER CENT) 40X 308 202

1002*

WELFAKE & DIGNIY OF OTHERS: CONCERN FOR MAKE FUN OF A PERSON WHEN MY FRIENDS WERE DOING IT ALSO."

RESPECT FOR LAW & AUTHORITY: WILLINGNESS* MERE NO CHANCE OF ANYONE GETTING HURT! THROW RUCKS DURING A PROTEST IF THERE FROM DESTRUCTIVE ACTIONS AND TO UBEY AUTHORITIES DURING EMERGENCIES- 1 10 TO REPORT LAW-BREAKING, TO REFRAIN

RESPONSIBILITY & INTEGRITY: WILLINGNESS TO REPORT OWN MISTAKES AND HONDRING EVEN IF I'D HAVE TO PAY FOR THE WIN-

TOTAL SCALES

ر. ب

- HEALTH HABITS GLAL.

GENERAL SCALE DESCRIPTION:

MHETHER TO TAKE A PRIPER HEALTH ACTION FIRE FACH OF THE COTCOMES. SAMPLE STURY: "NURMA HAS A STOMACH ACHE THE DUCTOR GIVES HER SOME PIELS. THE JULTOR FELLS HER TO TAKE TWO PILLS EVERY FOUR HULRS, SAMPLE ITEM: "IF I WERE NORMA, I WOULD TAKE AN LATRA PILL WHEN I KNE" IT HOULD MAKE HE FEEL MURE RELAXED, RESPUNSE CHUICES ARE (1) YES, (2) MAYHE, (3) NL. IS REQUIRED. THREE PUSSIBLE CUTCOMES UP THE CECISION ARE GIVEN IN EACH STORY. THE STOCKY DECIDES WHETHER THE TAKE A PRINCE LEGAL COLOURS. ITEMS MEASURE WILLINGNESS TO DISPLAY PROPER FEALLF DEHAVIORS IN THE AKLAS ORDES AND SAFETY. THE FORMAT USES IN STURIES, CACH POSISG A SITUATION WHEN

CRITERION FUR FAVURABLE RESPUNSE TO ITEM:
RESPONSE OPTION (1) IS CONSIDERED FAVORABLE TO ITEMS SUGGESTING A PRUPER HEALTH BEHAVIOR. UPTION (3) IS FAUURABLE WHEN THE SUGGESTED ACTION IS AN IMPRUPER HEALTH BEHAVION.

HEALTH PROFILE

, 7	SMOTT GLOSS AT A CASH		STUDENTS	UISPLAY	ING POSI	OSITIVE ATTITUE	TITUDES	STUDENTS DISPLAYING POSITIVE ATTITUDES ON SUB AND TUTAL SCALES	NO TUTAL	SCALES	
1	}	**************************************	20%	301	¥0 ,	504	**************************************	703	862	¥06	1001
		•		•	•	•	* .			•	*
65	9 PERSUNAL HEALTH: MILLINGNESS TO FOLLOW			: : :					٠	Δ	
	ַ ע	לרורורורורורורורורורורורור (דרור (דרורור) אינטאינטאינטאינטאינטאינטאינטאינטאינטאינט	ווווווווו	22222		つ				•	
	COLO.	>	•	4		_					•
Š	SAFETY: RESTRAINT FROM UNNECESSARY		000000000000000000000000000000000000000	0			_	· ·			
	PLAY	AI - 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		° 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3							
•	STATE STATE OF THE	\								•	
Ō.	DRUGS: RESTRAINT FROM IMPROPER USE OF A PRESCRIPTION ORUGS. EXPERIMENTATION A								1	•	
		\$555555555555555555555555555555555555	5555555	\$555555	555555	555555	5 \$ 5 \$ 5 \$ 5 \$	SS			,
		ו.O•רורורורורורורורורורורורורורורורורורורו	יווווווווו	וווווווו	ררורוו	יוווווו	7777777	ווווו		4	r.

TOTAL SCALES

STAY AT A PAKTY WHERE MAKJJUANA WAS BEING SMOKEU WHEN I KNEW NOBUDY ELSE

WANTED TO LEAVE."

\$5555555555555555555555555555555555

2

**** CB/CB/73. >>>

CHEATIVE ATTITULE A-11V JALIO

GENERAL SCALE DESCRIPTION:

URIGINAL POEM; WODELED AN UUTFIT USING YOUR CAN STYLE). RESPONSE UPTIONS GIVE SIX MAYS TO SHOW DEGREE OF INVOLVENENT IN EACH ACTIVITY. CPTIONS ARE (1) NO. AND HAVE NOT WANTED TO. (2) NO. BUT HAVE WANTED TO. (3) YES, BUT WITH NO RECOGNITION. (4) YES, WITH TEACHER OR ADULT RECUGNITION, (5) YES, WITH AREA-WIDE RECUGNITION. WHICH REGULAR ORIGINALITY IN THE AREAS OF VISUAL ARIS, PERFURMING ARIS, SCIENCE, AND WRITING. SAMPLE ACTIVITIES: (DUNE AN ORIGINAL SCIENTIFIC EXPERIMENT USING LIVING THINGS; MRITTEN AN LISTED ARE 36 ACTIVITIES

CRITEKIJN FOR FAVORABLE RESPONSE TO ITEMS: Response Choices (2, 3, 4, 5 & 6) SHCW A WILLINGNESS TO BECOME INVOLVED IN THESE ACTIVITIES AND ARE CONSIDERED FAVORABLE. RESPONSE CHOICE (1) SHGWS A REJECTION OF PERSONAL INVOLVEMENT AND IS CONSIDERED TO

CREATIVE ATTITUDE PROFILE

SUBSCALE DESCRIPTIONS AND SAMPLE ITEMS

STUDENTS DISPLAYING POSITIVE ATTITUDES ON SUB AND TOTAL SCALES IN PER CENT

106 803 201

INITHOUT NUMBER SET! IN OIL OR MATER COLORS.

SCIENCE: WILLINGNESS TO DO EXPERIMENTS TO SHOW A SCIENTIFIC PRINCIPLE.

JOKES, SKITS, ESSAYS, AND MUSIC- ** WRITING: WILLINGNESS TO PRUDUCE ORIGINAL*

TUTAL SCALE

_

UUAL VII-P - CREATIVE PERFUHANCE

GENERAL SCALE CESCRIPTION:

TO WENERATE "CREATIVE OUTPUT" SCURES A DIFFERENT SCURING SCHEMF IS USED UN THE CREATIVITY SCALE DISCUSSED ON THE PREVIOUS PAGE.

CRITERION FOR FAVURABLE RESPONSE TU ITEMS:

RESPONSE CHJICES 3, 4, 5 AND 6 INDICATE THAT THE STUDENT HAS ACTIVELY PARTICIPATED IN THE CREATIVE
ACTIVITIES AND THEREFORE ARE CONSIDERED FAVORABLE. RESPONSE CHOICES I AND 2 SHOW A LACK OF PERSONAL
INVOLVEMENT IN THESE ACTIVITIES AND ARE CONSIDEREC TO BE UNFAVURABLE.

ŭ	.,			CREAFIVE	CREATIVE PERFURMANCE PRUFILE	ANCE PRU	FILE	-		
SUBSCALE DESCRIPTIONS		PER CENT STUCENTS HEPORTING ACTIVE PARTICIPATION	R CENT S	TUGENTS	PER CENT STUDENTS REPORTING ACTIVE PARTICIPATION	G ACTIVE	PARTICE	PATION		
	104	202	30%	3 04	20 8	309	707	# 0 0	3 06	8
VISUAL ARTS: USING OWN IDEAS AND DESIGN WHEN ACTIVELY PARTICIPATING IN CRAFTS, PHUTUGRAPHY AND SCULPTURE;	**************************************	רורורון SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	וורוווו SSSS	1	•			•		i
PERFORMING ARTS: PERFORMING (FOR AUUI- ENCE) SELF-DEVELOPED ROUTINE IN MUSIC, ACTING, SPORT OR MODELING.	• רודוווווווווווווווווווווווווויי. • SSSS&SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	ירוון • *	s*	,		,	•			• • • •
SCIENCE: DOING EXPERIMENTS IN SOCIAL OR PHYSICAL SCIENCES AND DESIGNING MECHANICAL OR ELECTRUNIC GADGETRY.	OK* •\$555555555555	ירורורונונו SSSSSS	וווו			,			;	• • • •
WRITING: PRODUCING ORIGINAL WRITTEN PRUDUCTS SUCH AS POEMS, JOKES, SKITŠ, ESSAYS AND MUSIC	۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲۲	וררדררון פפפפטנט בי	\$\$\$\$\$\$	`a				•		• • • •
TOTAL SCALE:	•רווווווווווווווווווווווווווווווווווייי •SSSSSSSSSS	יווווווו צצצ		7						

6,7

. 0

GCAL VIII-A - VUCATIONAL ATTITUDE

GENERAL SCALE DESCRIPTION

NO DIFFICULTY PREPARING MYSELF MAKING LONG RANGE EDUCATIONAL PLANS. NINE ITEMS REFLECT A PCSITIVE VOCATIONAL.ATTITUDE (E.C., I AM HAVING NO DIFFICLLTY PREPARING MY FOR MORK I WANT TO DO). SEVENTEEN ITEMS ARE WORDEC TO REFLECT VOCATIONAL IMMATURITY (E.G., WHY TRY TC CECIDE UPON A JQB WHEN THE FUTURE IS SO UNCERTAIN?). RESPONSE OPTIONS ARE (1) AGREE, (2) MOSTLY AGREE, (3) MOSTLY DISAGREE AND (4) DISAGREE ATTITUDE TOWARD MORK, CAREER CHUIGE AND EFFORTS AT THENTY-SIX LIERS

CRITERION FOR FAVORABLE RESPONSE TO ITEMS:
OPTIONS (1) AND (2) ARE CONSIDERED FAVORABLe to tiems showing positive vocational development. Options (3)
AND (4) ARE CONSIDERED FAVORABLE TO ITEMS REFLECTING VOCATIONALLY IMMATURE ATTITUDES.

NOTE: BECAUSE RELATIVELY INDEPENDENT SUBSCALES WERE NOT EVICENT IN FIELO-TEST RESULTS, ONLY INFORMATION BASED ON THE TCTAL

SCALE IS PRESENTED BELOW.

VOCATIONAL ATTITUDE PROFILE

STUDENTS DISPLAYING POSITIVE ATTITUDE

IN PER CENT

30%

201

102

101

TOTAL SCALE: BELIEF THAT WORKING IS IM-THE KIND OF WORK I PORTANT AND WILLINGNESS TO BEGIN BE TAKEN TO GET

SUBSCALE CESCRIPTIONS

3

GOAL VIII-K - VUCATIUNAL KNOWLEUGE

GENERAL SCALE DÉSCRIPTION:

IMIS 30-ITEM VOCATIONAL KNUMLFUGE TEST TAPS UNDERSTANDING JF SKILL, TKAINING AND EDUCATION REQUIREMENTS UF VARIOUS OCCUPATIONS. ITS MULTIPLE-CHUICE FCRMAT REQUIRES STUDENTS TO SELECT THE MUST CORRECT ANSWER FROM FOUR ALTERNATIVES. SAMPLE QUESTION: WHICH ONE OF THE FULLOWING CAN BE DONE DRLY BY A DGCTUR? ANSWERS: (A) GIVE SHOTS, (B) PRESCRIBE MEDICINE, (C) TAKE BLOOD PRESSUKE AND (U) TAKE X-RAYS.

SCORING FOR SCALE:

ONE POINT IS GIVEN FOR EACH CCRRECT ANSWER. TOTAL SCORE IS THE NUMBEK OF CORRECT ANSWERS GIVEN BY THE STUDENT.

SCORES: DISTRIBUTION OF

THE BAR GRAPH BELOW PRESENTS A CUMULATIVE EREQUENCY DISTRIBUTION FOR STATE VS. LOCAL STUDENT SCORES ON THIS SCALE. THE LEFT HAND COLUMN DESCRIBES THE LOWER LIMITS OF EACH OF FOUR SCORING CATEGORIES USED.

SCORING CATEGORIES

75

CUMULATIVE FREQUENCY DISTRIBUTION: VOC. KNOWLEDGE

CATEGORY I: PER CENT SCORING 15 OR ABOVE. THOSE PASSING THIS CUT-OFF ARE ABOVE THE 21ST PERCENTILE FOR STUDENTS IN STATE.

69.

CATEGORY II: PER CENI SCORING 19 OR ABOVE. THOSE PASSING THIS CUT-OFF ARE ABOVE THE 44TH PERCENTILE FOR STUDENTS IN STATE.

CATEGORY III: PER CENT SCURING 21 OR ABOVE. THOSE PASSING THIS CUT-OFF ARE ABOVE THE 59TH PERCENTILE FOR STUDENTS IN STATE.

ABOVE. THOSE PASSING THIS CUT-OFF CATEGORY IV: PER CENT SCORING 24 OR ARE ABOVE THE 82NO PERCENTILE FOR STUDENTS IN STATE.

PER CENT OF STUDENTS MEETING OR EXCEEDING CUT-OFFS 100% 308 100 0 70% , **2**09 30% 202

*SSSSSSSSSS

יווו

z 3 «,

= C8/C8/73. >>>

د

UNAL IX - APPRECIATING HUMAN ACCUMPLISHHENTS

SCALE DESCRIPTION: GENERAL

ART, ATHLETICS, POLITICS, SCIENCE, MUSIC AND CHAMA. SAMPLE VALUING ITEM: (ARTISTS DON'T CONTRIBUTE MUCH TO OUR MORLD). SAMPLE RECEIVING ITEM: (DURING MY FREE TIME I WOULD LIKE TO ATTEND A SESSION OF CONGRESS). TO WHICH THEY ARE WILLING TO RECEIVE STIMULI THAT THESE ENDEAVORS PROVIDE. AREAS INCLUDED ARE LITERATURE IN THE ARTS AND SCIENCES AND THE DEGREE STUDENTS PLACE ON HUMAN ACHIEVENENT RESPONSE OPTIONS ARE (1) AGREE, (2) UNCERTAIN AND (3) CISAGREE. ITEMS HEASURE HOW MUCH VALUE

CRITERION FOR FAVORABLE RESPONSE TO ITEMS:

RESPONSE OPTION (1) IS CONSIDEREO FAVORABLE TO ALL RECEIVING ITEMS AND TO THOSE "VALLING" ITEMS WHICH DESCRIBE ACTIVITIES IN ARTS, SCIENCES, ETC. IN A POSITIVE LIGHT. OPTION (3) IS FAVORABLE IN RESPONSE TO NEGATIVELY STATED "VALUING" ITEMS.

APPRECIATING HUMAN ACCOMPLISHMENTS PROFILE

883 DISPLAYING POSITIVE ATTITUDES ON SUB AND TUTAL SCALES 808 701 **209** IN PER CENT **50X** 40X 30% STUDENTS 201 SUBSCALE DESCRIPTIONS AND SAMPLE ITEMS

IMPORTANCE TO ACHIEVE-MENTS IN THE ARTS AND SCIENCES AND

DOING-"IT WOULD BE FUN TO WATCH PEOPLE WILL INGNESS TO LEARN MORE ABOUT ACHIEVEMENTS IN THE ARTS AND ON WHAT PEOPLE IN THESE AREAS ARE PAINT AT AN ART STUDIO. RECE IV ING:

TOTAL SCALE:

15555555555555555555555555555555555

- PREPARING FUR A CHANGING WURLD GUAL X

GENERAL SCALE CESCRIPTION:

AFTER CLASS. 4 SAID (DIDN'T DO IT, BUT THE TEACHER WOULDN'T BELIEVE ME. IF THIS HAPPENED TO YOL, HOW MUCH TIME WOULD YOU SPEND?...INYING TO UNCERSTANL TEACHER'S POINT OF VIEW, TRYING TO GET BACK AT THE PER DESCRIBING UNPYEASANT CHANGE SITUATIONS IN WHICH STUDENTS' EXPECTATIONS OR NEEDS ARE NOT MET. FIVE REACTIONS PRE-GEFINED AS INDICATING PUSITIVE OR NEGATIVE ADAPTATION TO CHANGE ARE GIVEN FULLOWING EACH STORY. SAMPLE \$TURY: "SOMEONE IN MY CLASS CARVEC A WORC IN MY DESK. THE TEAGHER SAK IT AND MAJE ME STAY SON WHO DID IT." RESPONSE UPTIONS ARE (1) NO TIME, (2) VERY LITTLE TIME, (3) SOME TIME AND 14) A GREAT ITEMS MEASURE EMUTIONAL AND BEHAVIORAL REACTIONS TO CHANGE. THE SCALE'S FORMAT CONTAINS SEVEN STORIES

CRITERION FOR

FAVORABLE RESPONSE TO ITEMS:

RESPONSE OPTIONS (1) AND 12) ARE CCNSIDERED FAVORABLE TC ITEMS SHOWING NEGATIVE ADJUSTMENT TO CHANGE. OP-TIONS (3) AND (4) ARE CONSIDERED FAVORABLE TO ITEMS REFLECTING PUSITIVE ADAPTATION TO CHANGE.

PREPARING FOR CHANGE PROFILE

1002 STUDENTS DISPLAYING POSITIVE ATTITUDES ON SUB AND TOTAL SCALES. 206 808 IN PER CENT > 308 202

2 , 10. **208** 404 XO4

 FROM SCHOOL FOR A TRIP, I'O STAY HOME REFRAINING FROM INEFFECTIVE SOLUTIONS: TENDENCY TO AVOID USE OF AGGRESSIVE OR WITHDRAWING REACTIONS IN FACE OF CHANGE-"IF I COULDN"T GET EXCUSED

LENGTH JF TIME NEEDED TO EMOTIONALLY ADJUST TO CHANGE-"IF THIS HAPPENED TO YOU. HUM MUCH TIME WOULD YOU SPEND EMOTIONAL ACJUSTMENT: PERCEPTION OF GETTING OVER BEING UPSET?

TOTAL SCALE:

 USING EFFECTIVE SOLUTIONS: TENDENCY TO

SUBSCALE CESCRIPTIONS ANE SAMPLE ITEMS

7

TRY SOLUTIONS REFLECTING POSITIVE

ADJUSTMENT TO CHANGE-"IF MY PARENTS DECIDED TO MOVE, I'D READ ABOUT THE

PLACE WE WERE MOVING TO.

• 01

TCTAL SCALES FOR ATTITUDE

	GOAL NAME		PE	PEP CENT OF STUDENTS SHOWING PUSITIVE ATTITUDE (IN PER CENT)	F STUDEN	TUDENTS SHOWIN	NG PUSIT	IVE ATTE			
,		10.5	305 404 505	308	, ,	205	209	808 708 808 *********************************		306	1001
jud	SELF-ESTEEM	\$		רררררר sssssss	ווווווו sssssss	ררורור ssssssss	רוווו SSSSSSSS	\$\$\$\$\$		•	• • •
=	UNDERSTANDING OTHERS	\$		SSSSSSS S	רררווו SSSSSSSS	11111111111111111111111111111111111111	1111111 2225253	רוווווו ssssssss	ינררר ינינינייייייייייייייייייייייייייי	n	• • •
2	INTEREST IN SCHOOL			1111111 2225255	רוווווו SSSSSSS	ררורור sssssss	S S S S S S S S	S.			• • • (
>	CITIZENSHIP			רוווו SS							• • •
72	HEALTH HABITS		ירורוווו sssssssss	הווווווו SSSSSSSS	פפפפ פפפפ						
A-11V	CREATIVE ATTITUDE		רווווווי: ??????????	רוווווו SSSSSSSSS	ררוווו ssssssss	יוררורור ssssssss	רוווו SS				• • • •
Y-1111 と	VOCATIONAL ATTITUDE		ירורווווו sssssssss	יווווווו \$\$\$\$\$\$\$\$	1111111 \$\$\$\$\$\$\$\$	ינרררררר SSSSSSSS	וררוווו SSSSSSSS	רוווווו ssssssss	וווווו פפפפפפפפפפפפפפפפפפפפפפפפפפפפפפפ	· vs	• • •
×	HUMAN ACCOPPLISHMENTS		רררורר. sssssssss	ווווווו \$\$\$\$\$\$\$\$	SSSS			•			• • • •
×	PREPARING FOR A CHANGING WORLD		יררורורו ssssssssssss	יווווווו SSSSSSSSS	רורורור SSSSSSSS	ורודות מממנים מממנים	רורורוו SSSSSSS	.55555555 LL	s		• • •

SUMMARY OF CRITERION REFERENCED INFORMATION

Commany Comm	T ∀ (%)	Э.	•	I	CR IT	LEVEL	S	,
SELF CONFIDENCE STATE - LOCAL - STATE - LO		of the it	352	354		P		
SFLE COMPLICACE 1931 604 618 451 471			SIAT	+ LUCAL	STAT	LOCAL	STATE	1 1
RELIGIOR COUNTRY ENVIRONMENT 095 091 768 678 678 678 678 678 678 678 678 678	_		±83 ₩	808	612	454	~	27.2
SECTION STATE ST		*	3 56	954	768	27.9	209	45#
II		æ	2 06	3 06	5 7.9	869	278	45.1
RALE RALE			787	748	532	454	*0*	301
RELICION RELICION STATE		30.ALE	•	•	728	2 2 2	€0	22 %
SECTOR STATUS S	11	RACE	868	216	738	161	S	582
Variety Vari			308	148	349	584	¥94	458
V ATTITUDE TOWARD LEARNING			Me o	M 1 0 0	634 1034	758	# 4 9 ·	52 %
V ATTITUDE TOWARD LEARNING		MANGICAP	456 458		26/	187 187	# 0 # 1	464
VITITUDE TOWARD LEARNING		TOTAL SCALE	#86	266	851	818	438	388
ATTITUDE TOWARD LEARNING	:					•	•	-
MELERE AND DIGNITY OF OTHERS 748 728 548 348	.		¥ 88	268	76%	142	•	478
NET STATE NET NE		ATTITUDE TOWARD SCHOOL	252	728	284	248	•	278
MELFARE AND DIGNITY OF OTHERS 518 518 302 318 13		IOLAL SCALE	398	3	1	93	-	3 8 %
RESPONSIBILITY AND INTEGRITY 518 598 308 318 138	7.	WELFARE AND DIGNITY OF OTHERS	209	6 3 %	368	O	~	
The part of the	1.7	RESPECT FOR LAW AND AUTHORITY	318	58%	308	8	3	161
PERSONAL HEALTH		HOTAL BIALD	275	265	262	•	4	151
PERSONAL HEALTH		משר פנשר כ	196	100	267	TO .	-	121
SAFETY 558 368 358 191 DRUGS TUTAL SCALE 778 611 652 691 418 118 VISUAL ARTS FERCAL 798 838 688 748 408 778 418 168 VISUAL ARTS FERCAL 798 638 678 458 528 418 168 PERFORMING ARTS 756 778 678 678 678 408 228 728	1 ^	PERSONAL HEALTH	2 99	678	338	328	•	1.12
DRUGS PURIOR PURIOR </td <td></td> <td>SAFETY</td> <td>. 551</td> <td>228</td> <td>382</td> <td>358</td> <td>Q</td> <td>178</td>		SAFETY	. 551	2 28	382	358	Q	178
VISUAL ARTS VISUAL ABJUSTMENT VISUAL CALLE VISUAL ABJUSTMENT VISUAL SCALE VISUAL ABJUSTMENT VISU			277	# 1 8	259	269	-	244
VISUAL ARTS FERFORMING ARTS 74% 4CT			**	26.	434	X 1 4	•	131
PERFORMING ARTS SCIENCE MRITING MRITING TOTAL SCALE (ATTITUDE) VOCATIONAL ATTITUDE VALUING RECEIVING RECEIVING UNING EFFECTIVE SQLUTIONS WEFRALIND FRUM INFFECTIVE SQLUTIONS FOULD SCALE UNING FOUND SCALE UNING FOUN	V-11A	VISUAL ARTS	161	8 3	189	748		4
Vocational attitude		PERFORMING ARIS	¥65	2 29	454	2.4%	2.2	
TOTAL SCALE (ATTITUDE)		SCIENCE	75.5	191	62%	101	24	74
USING EFFECTIVE SQLUTIONS 91 94 95 63 28 3 VALUING 92 99 99 88 49 49 49 49 49 49 49 49 49 49 49 40<			73.5	2 89	219	578	(T)	368
VCCATIONAL ATTITUDE 99% 99% 99% 84% 49%		IDIAL SCALE (AIIIIUUE)	•	# * * * * * * * * * * * * * * * * * * *	265	631	80	37.1
X	A-111V	VCCATIONAL ATTITUDE	•	0	88	3	O.	4 8
RECEIVING SOLUTIONS SOLU	<u>></u>							l .
TCTAL SCALE TCTAL SCALE USING EFFECTIVE SQLUTIONS WEFRAINING FRUM INEFFECTIVE SULUTIONS EMUTIONAL ADJUSTMENT TOTAL SCALE TOTAL SCALE	. ,		276	20	109	9	9	αο ι
USING EFFECTIVE SQLUTIONS HEFRAINING FREETIVE SULUTIONS HERRAINING FRUM INEFFECTIVE SULUTIONS HERRAINING FRUM INFFECTIVE SULUTIONS HERRAINING FRUM INFFECTI	•	TCTAL SCALE	757	、つ	4 1 4	- 0	۰-	e e
COSING CTTCCLIVE SQUILLIONS HER STATEMENT OF THE STATEME	>		•	•	1		1)
	<	AFFECTIVE SUCCIONS	# * C	#1 6	754	72	•	4
0.4 554 478 414 214 1 954 952 792 658 319 2		ر ا 1 م د	216	14 6 10 u 10 u	784		φ.	364
		TOTAL SCALE	#56 65#	v v	4 / 4 7 A 4			1 4 4

JATE HUN = 08/CB/73. >>>

. SES PAUFILE:

	: * :	*, * *	• • •	• • •	• • •	• • • •	• • • •
						1	. !
			4				
							į
	:						į
						٠	
						:	
-				•	•		
	FOUSING				•	×	į
	J						į
	ersedeséanteseassassassassassassassassassassassassa						į
	J. AT			×		·	
ES	SL (-		
148L							
> AK	PCTFEM		×	-	.	, /	
Š O	5						
SES CENUITION VARIABLES			•			•	
CLN	PAKATT						
S E S	3						
- '	, ,	·					
	RF S I DE	• • •					
		•					į
	MEDUC						×
(Federade se						×
	22						*
							į
	1 1 S						į
	70000000000000000000000000000000000000					٠	į
	. – :	O					1
	C E			Ŀ			ŀ

C.2186 SES =

80

APPENDIX B

· INFORMATION PACKETS

The following information packages relating to Goal IX are available from the Research and Information Services for Education (RISE), 198 Allendale Road, King of Prussia, Pennsylvania 19406. School districts desiring these packets should request: "EQA Information Packet on..." and the title of the packet along with the type of printout desired. Schools are cautioned that if microfiche (mf) is requested, they must have access to a microfiche reader.

The packets are designed to provide an introduction and foundation for further study.

PACKET TITLE: Peer Tutoring

Symbol indicates type of printout included

AB--abstract of article

CA--complete article

mf--microfiche (School must have a reader)

- AB ERADSHAW, CHARLES I.

 1971 Remedial reading instruction by student tutors in
 inner-city schools. San Diego, California Educational
 Research Association. 15 p. (ED 052 280)
- AB DETERLINE, WILLIAM A.

 mf 1970. Training and management of student-tutors. Palo Alto,
 California; General Programmed Teaching. 57 p. (ED 048 133)
- AB GANTNER, ALAN, et. al.
 1971 Children teach children: learning by teaching. New York;
 Harper & Rowe, Inc., 49 East 33rd Street, 190 p. (ED 056 157)
- AB McCLELLAN, BILLIE FRANCES
 1971 Student involvement in the instructional process through
 tutoring. Tallahassee, Florida Education Association.
 40 p. (ED 055 046)

CA THELEN, HERBERT A.
1969 Tutoring by students. The School Review 77: 229-243
(September-December) (EJ 011 615)

PACKET TITLE: How to Increase a Teacher's Interest and Compassion Towards the Student

- EX COTTON, MARLENE and Others 1973 Learning about feelings. New London, Connecticut; Croft Leadership Action Folio 50. Booklet B (12 p.) and Booklet C (8 p.)
- CA JOYCE, BRUCE and Others
 1969 Sensitivity training for teachers: an experiment.
 The Journal of Teacher Education xx (1): 75-83.
 (Spring)
- CA KIMPLE, JAMES A.

 1969 How South Brunswick schools developed an in-service training program. Nations' Schools 83: 85-87. (March)
- CA LEVIN, MARC N. 1972 Teacher pregaration for affective education. Philadelphia;
 American Educational Research Association. 8 p. (April)
- ROGERS, CARL R.

 1969 A college professor gives freedom within limits. IN
 Freedom to Learn. Columbus, Ohio, Charles E. Merrill
 Publishing. 358 p. (41 p.)

PACKET TITLE: Teacher-Student Interaction

- AB AMIDON, EDMUNC and BARAK ROSENSHINE

 1968 Interaction analysis and micro-teaching in an urban
 teacher education program. A Model for Skill Development
 in Teaching. Chicago, Illinois, Convention of the
 American Educational Research Association. 26 p. (ED 076 496)
- CA FLANDERS, NED

 1973 Basic teaching skills derived from a model of speaking and listening. Journal of Teacher Education 24: 24-37.

 (Spring) (EJ 074 174)
- SIMON, ANITA/and E. GIL BOYER
 1970 Mirrors for behavior II, Volumes A and B: an anthology of
 observation instruments. Philadelphia, Pennsylvania,
 Research for Better Schools, Inc. (R.I.S.E. document No. 01567)
 612 p.

- CA WHITHALL, JOHN
 1972 Research in systematic observation in the classroom
 and its relevance to teachers. The Journal of Teacher
 Education 23: 330-332. (Fall) (EJ 067 395)
- CA YOUNG, DAVID and DOROTHY YOUNG
 1968 The model in use (microteaching). Theory into Practice
 7: 186-189. (December)